



## **TRANS TECH CONSULTANTS**

*Environmental Compliance Services  
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License # 697833 (A-Haz)*

October 2005  
Job No. 1301.01

Mr. Leland Smith  
Pipeline Excavators  
P.O. Box 1755  
Sebastopol, California 95473-1755

**Subject: 3<sup>rd</sup> Quarter 2005 Monitoring Report**  
**Pipeline Excavators, 5715 Sebastopol Road, Sebastopol, California**  
**SCDHS-EHD Site #00001115; NCRWQCB Site #1TSO641**

Dear Mr. Smith:

This report presents the results of the 3<sup>rd</sup> Quarter 2005 groundwater monitoring and sampling event performed at the subject site. The site is approximately located as shown on the attached Site Location Map, Plate 1. This work was performed in accordance with recommendations from Mr. Dale Radford of the Sonoma County Department of Health Services Environmental Health Division (SCDHS-EHD).

### **Monitoring and Domestic Well Sampling**

On September 12, 2005, groundwater samples were collected from monitoring wells MW-1, MW-2, and MW-4 through MW-7, and domestic wells DW-6100 and DW-6140. The approximate well locations and general site features are shown on the attached Site Plan/Groundwater Elevation Contour Map, Plate 2. Prior to sampling, static water levels were measured and each monitoring well was checked for the presence of free product using an oil/water interface probe. No free product was reported during this monitoring event. To produce representative groundwater samples, the monitoring wells were then purged of approximately three well casing volumes using a submersible pump. In addition, the indicator parameters such as the temperature, pH, and conductivity were measured during purging and recorded on the attached Groundwater Field Sampling Forms, Appendix A. The water level in each monitoring well was then allowed to sufficiently recover prior to sampling. Groundwater samples were collected using a new disposable bailer for each well and transferred into the appropriate containers supplied by the laboratory. The domestic well at 6100 Sebastopol Road (DW-6100) was sampled through the hose bib located on top of the well casing. Water was allowed to run for approximately five minutes before samples were obtained. The domestic well located at 6140 Sebastopol Road (DW-6140) is currently non-operational and the pump was removed to allow sample collection with a disposable bailer. Groundwater removed from the monitoring wells during purging and rinse water is stored onsite in 55-gallon DOT-approved drums labeled with non-hazardous waste designations, pending disposal. The groundwater samples collected were labeled, stored on ice, and then transported under chain-of-custody documentation to Alpha Analytical Laboratories, Inc. of Ukiah, California for chemical analysis.

## Water Level Measurements

Monitoring well top-of-casing (TOC) elevations, depths-to-groundwater, the calculated water level elevations, and the calculated groundwater flow direction and gradient for the September 12, 2005 sampling event are presented in Table 1. Elevations are expressed in feet relative to mean sea level (msl), depths are expressed in feet, and the gradient is expressed in feet per foot. Historical groundwater flow directions and gradient data are presented in Appendix B.

**Table 1: Groundwater Flow Direction and Gradient**

Groundwater Flow Direction and Gradient					
Sample Date	Monitoring Well ID	TOC Elevation ( feet - msl )	Water Level Depth ( feet )	Water Level Elevation ( feet -msl )	Groundwater Flow Direction/Gradient (i)
09/12/05	MW-1	70.83	4.14	66.69	Southwesterly i = 0.02
	MW-2	70.95	4.42	66.53	
	MW-3	----removed----			
	MW-4	74.05	7.92	66.13	
	MW-5	74.14	7.68	66.46	
	MW-6	70.16	4.19	65.97	
	MW-7	70.35	5.24	65.11	

Groundwater elevation contours based on wells MW-1, MW-2, and MW-4 through MW-7 for the September 12, 2005 sampling event are shown on Plate 2.

## Laboratory Chemical Analysis

Groundwater samples collected from the monitoring and domestic wells were analyzed for total petroleum hydrocarbons (TPH) as gasoline (g) and TPH as diesel (d) using Environmental Protection Agency (EPA) Test Methods 8260 and 8015, respectively. The volatile organic compounds: benzene, toluene, ethyl benzene, and total xylenes (BTEX), the additional oxygenated fuel additives, including methyl tert- butyl ether (MtBE), and the lead scavengers were analyzed using EPA Test Method 8260B. The laboratory chemical results are presented on page 3, Table 2. TPH-g, TPH-d, BTEX, and MtBE results are expressed in units of micrograms per liter ( $\mu\text{g/L}$ ). The laboratory analytical reports and chain-of-custody documentation are attached in Appendix C. Historical groundwater analytical results are presented in Appendix D. Time vs. Concentration Graphs that plot concentrations of TPH-g, TPH-d, benzene, and MtBE over time for MW-1 and MtBE concentrations over time for MW-2, and MW-4 through MW-7 are presented as Appendix E.



**Table 2: Groundwater Analytical Results**

Sample Date	Sample ID	TPH- g	TPH- d	B	T	E	X	MtBE
		µg/L						
09/12/05	MW-1	1,300	230*	<6.0	<6.0	<10	<10	43
	MW-2	<500	97	<3.0	<3.0	<5.0	<5.0	19
	MW-3	----removed----						
	MW-4	<1000	<100	<6.0	<6.0	<10	<10	34
	MW-5	<50	550**	<0.30	<0.30	<0.50	<0.50	17
	MW-6	<93***	<50	<0.30	<0.30	<0.50	<0.50	2.7
	MW-7	<100	<50	<0.30	<0.30	<0.50	<0.50	43 +
	DW-6100	<50	<50	<0.30	<0.30	<0.50	<0.50	<0.50
	DW-6140	<50	<50	<0.30	<0.30	<0.50	<0.50	<0.50

< = Less than the laboratory test method detection limit.  
 + = 1,2-Dichloroethane detected at 7.4 µg/L.  
 \* = Analysis of this sample indicates the presence of hydrocarbons lower in molecular weight than diesel.  
 \*\* = Results in the diesel organics range are primarily due to overlap from a heavy oil range product.  
 \*\*\* = The method blank contains analyte at a concentration above the MRL; sample reporting limits were raised as necessary.

### Discussion

During this sampling event, TPH-g was detected in the samples collected from MW-1 at a concentration of 1,300 µg/L. TPH-d was detected in the sample collected from MW-1, MW-2, and MW-5 at concentrations of 230 µg/L, 97 µg/L, and 550 µg/L. However, the laboratory reported that the sample analysis for MW-1 indicated the presence of hydrocarbons lower in molecular weight than diesel. In addition, the laboratory reported that the sample analysis for MW-5 indicated that the results in the diesel organics range are primarily due to overlap from a heavy oil range product. MtBE was detected in monitoring wells MW-1, MW-2, MW-4, MW-5, MW-6, MW-7. The lead scavenger 1,2-dichloroethane (EDC) was detected in the samples collected from MW-7 at a concentration of 7.4 µg/L. The samples collected from DW-6100 and DW-6140 are below the reported laboratory detection limits for the analyses requested.

The most recent sampling event represents one complete hydrogeologic cycle subsequent to the remedial excavation activities performed during October 2004. In general, the September 12, 2005 analytical results are generally consistent with historical contaminant trends. It appears that TPH as gasoline, TPH as diesel, and MtBE concentrations are gradually declining in well MW-1. MtBE concentrations are gradually declining in wells MW-2, MW-5, and MW-6. However, it appears that MtBE concentrations are gradually increasing in wells MW-4 and MW-7. In addition, TPH as diesel was detected for the first time in wells MW-2 and MW-5. We will need to confirm these results



during the next sampling event. It should be noted that the protective vault and cap for MW-5 were damaged during the remedial excavation activities and the well casing was partially filled with soil. Although various attempts were made to remove the material, approximately two feet of soil remains in the casing. This material is the most likely source for the recent TPH as diesel detection in well MW-5. The material will be removed before the next sampling event.

It appears that there is a potential for a secondary source to the east. We recommend that a work plan be prepared to delineate the extent of groundwater contamination by advancing soil borings along the eastern property boundary. In addition, the proposed work would also include advancing soil borings within the former excavation perimeter for the purpose of evaluating the effects to groundwater from the remedial excavation.

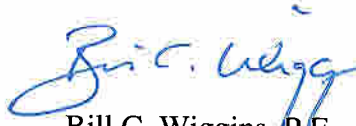
We are in the process of completing a feasibility study evaluating the options available to remediate MtBE found in domestic well DW-6140.

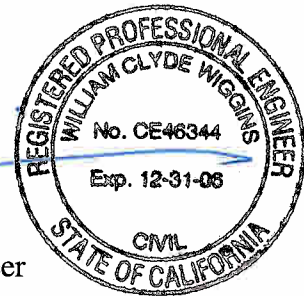
Our next sampling event is scheduled for December 2005.

We appreciate the opportunity to be of service to you and trust that this provides the information you require at this time. If you have any questions or require any additional information, please feel free to contact us at (707) 575-8622 or [www.transtechconsultants.com](http://www.transtechconsultants.com).

Sincerely,  
TRANS TECH CONSULTANTS

Brian R. Hasik  
Staff Geologist

  
Bill C. Wiggins, P.E.  
Registered Civil Engineer



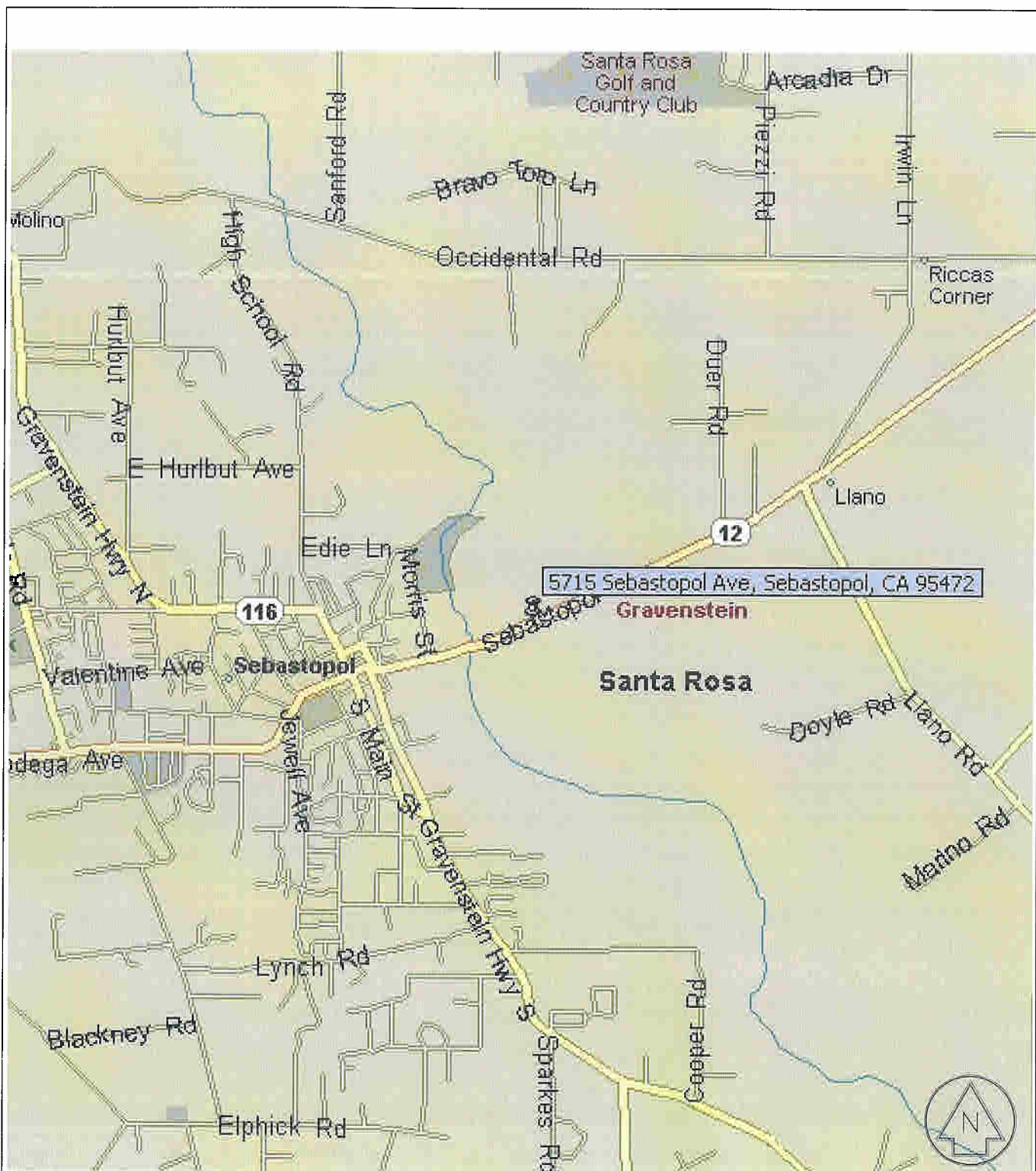
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Attachments:

- Plate 1, Site Location Map
- Plate 2, Site Plan/Groundwater Elevation Contour Map
- Appendix A, Groundwater Field Sampling Forms
- Appendix B, Historical Groundwater Elevation and Gradient Data
- Appendix C, Alpha Analytical Laboratory Report dated September 27, 2005
- Appendix D, Historical Groundwater Analytical Results
- Appendix E, Time vs. Concentration Graphs for MW-1, MW-2, MW-4 through MW-7
- Distribution List







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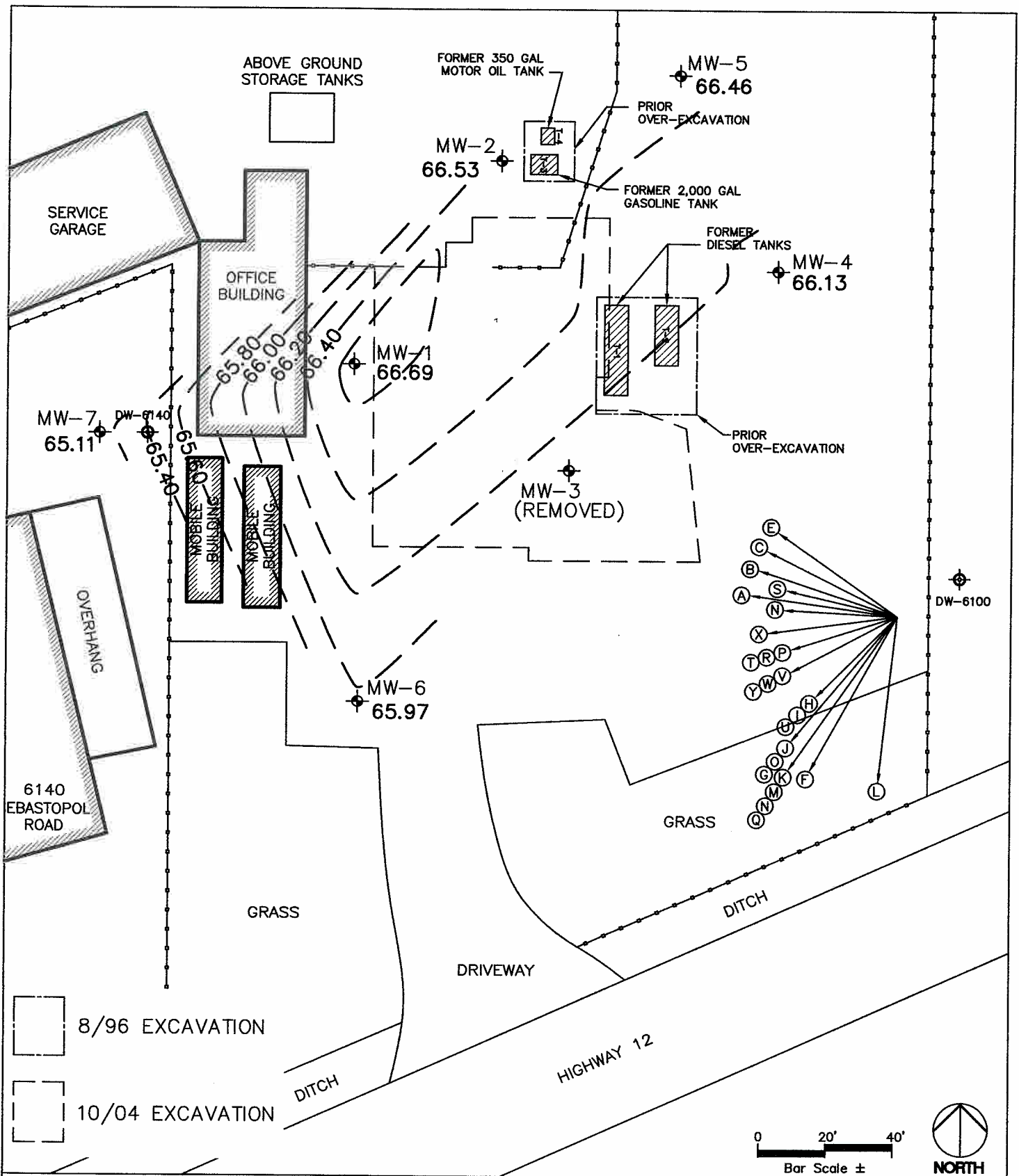
## SITE LOCATION MAP

PIPELINE EXCAVATORS  
5715 SEBASTOPOL ROAD  
SEBASTOPOL, CALIFORNIA

PLATE:

1

DRAWN BY:	DWG NAME:	APPR. BY:	JOB NUMBER:	W.O. NUMBER:	REVISIONS:	DATE:
PSC	1301.01 SLM	BCW	1301.01	A-228		12/23/03



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**SITE PLAN/GROUNDWATER ELEVATION CONTOUR MAP FOR 9/12/05**

PIPELINE EXCAVATORS  
5715 SEBASTOPOL ROAD  
SEBASTOPOL, CALIFORNIA

**PLATE:**

**2**

**SHEET: 1 OF 2**

DRAWN BY:  
PSC

DWG NAME:  
1301.01 GWFP

APPR. BY:  
BRH



JOB NUMBER:  
1301.01


W.O. NUMBER:  
A-841

REVISIONS:

DATE:  
10/17/05

## GROUNDWATER FLOW LEGEND

Estimated Groundwater Flow Direction		Gradient Contour (Interval = 0.2 ft)		Identifier Tag	Date	Est. Flow Direction	Gradient Slope
							
Identifier Tag	Date	Est. Flow Direction	Gradient Slope				
(A)	6/06/01	N82°E	I=0.023				
(B)	7/23/01	N73°E	I=0.013				
(C)	8/29/01	N65°E	I=0.01				
(D)	9/13/01	NA	NA				
(E)	10/24/01	N58°E	I=0.01				
(F)	12/13/01	S30°W	I=0.002				
(G)	1/23/01	S40°W	I=0.004				
(H)	2/21/02	S45°W	I=0.006				
(I)	3/13/02	S45°W	I=0.006				
(J)	4/24/02	S40°W	I=0.005				
(K)	5/20/02	S35°W	I=0.007				
(L)	7/16/02	SOUTHERLY	I=0.008				
(M)	9/06/02	S35°W	I=0.005				
(N)	12/18/02	W/SW	I=VARIES				
(O)	3/19/03	SOUTHWEST	I=0.01				
(P)	7/09/03	WESTERLY	I=0.004				
(Q)	9/16/03	W/SW	I=VARIES				
(R)	12/02/03	WESTERLY	I=0.03				
(S)	3/31/04	SW/NW	I=0.02				
(T)	6/08/04	SOUTHWESTERLY	I=0.014				
(U)	9/07/04	S45°W	I=0.005				
(V)	12/09/04	SOUTHWESTERLY	I=0.007				
(W)	3/31/05	SOUTHWESTERLY	I=0.008				
(X)	6/27/05	SOUTHWESTERLY	I=0.02				
(Y)	9/12/05	SOUTHWESTERLY	I=0.02				

 MW-1 Monitoring Well Location  
[xx.xx] Groundwater Elevation

NOTE: Ground water elevations are in feet above mean sea level (National Geodetic Vertical Datum, 1929).

 Domestic Well

 Excavation Limits



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**SITE PLAN/GROUNDWATER ELEVATION CONTOUR MAP FOR 9/12/05**

PIPELINE EXCAVATORS  
5715 SEBASTOPOL ROAD  
SEBASTOPOL, CALIFORNIA

**PLATE:**

**2**

DRAWN BY: PSC	DWG NAME: 1301.01 GWFP	APPR. BY: BRH	JOB NUMBER: 1301.01	W.O. NUMBER: A-841	REVISIONS:	DATE: 10/17/05	SHEET: 2 OF 2
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## APPENDIX A



# GROUNDWATER FIELD SAMPLING FORM

## WELL INFORMATION

Project Number/Name: 1301.01 Pipeline Excavators		Well Number: MW-1
Project Location: 5715 Sebastopol Road Sebastopol, California	Casing Diameter: 2"	Well Depth from TOC (BP): 8.15 Well Depth from TOC (AP):
Date: September 12, 2005	Top of Screen:	Initial Well Depth:
Sampled by (print and sign): Brian Hasik <i>(Signature)</i>	Product Thickness in inches: 0	
	Water Level from TOC: 4.14	Time: 11:23
Notes: H <sub>2</sub> O ODOOR dry @ 2.5g	Water Level pre-purge: 4.14	Time: 1:20
	Well Type: <input checked="" type="checkbox"/> Monitor <input type="checkbox"/> Extraction <input type="checkbox"/> Other:	
	Well EL (TOC):	Well Mat: PVC

## WEATHER

Wind: Yes / No <input checked="" type="radio"/>	Clouds: Yes / No <input checked="" type="radio"/>	Sun: Yes / No <input checked="" type="radio"/>	Precipitation in last 5 days: Yes / No <input checked="" type="radio"/>
Rain: Yes / No <input checked="" type="radio"/>	Fog: Yes / No <input checked="" type="radio"/>		

## VOLUME OF WATER TO BE REMOVED BEFORE SAMPLING

(     -     ) X (    )<sup>2</sup> X 0.0408 = 0.64 gallons in one well volume  
 TD                      WL                      Dia. Inches

1.92 gallons in 3 well volumes (Approx. 0.6 gal/ft) 2.5 total gallons purged

## FIELD MEASUREMENTS DURING PURGING

Stable Field Parameters Required Prior to Sample Collection <10% pH and EC change, <0.2°C temp. change


Time	Gallons	pH	TEMP °C	ORP	DO mg/L	EC mS / μS	Turbidity H/M/L
1:21	1	6.62	24.8	-30		2169	L
1:22	2	6.59	24.2	-56		2579	L
1:22	2.5	6.55	23.9	-48		2891	L

Minimum of 5 gallons or 0.6 gal/ft. Of water in casing - whichever is greater and field parameters must be stable.

Water Level Before Sampling: 4.15	Time: 2:30
Appearance of Sample:	
Bailer: Disposable	Pump: 12V Submersible (1-2 gpm)
DECON. METHOD: TSP or Liquinox (phosphate free) Wash / Double Rinse	
NUMBER OF DRUMS GENERATED: Water: 2(1)	Soil: X Other: X

DRUM OK

# GROUNDWATER FIELD SAMPLING FORM

WELL INFORMATION							
Project Number/Name: 1301.01 Pipeline Excavators				Well Number: MW-2			
Project Location: 5715 Sebastopol Road Sebastopol, California		Casing Diameter: 2"		Well Depth from TOC (BP): 8.09 Well Depth from TOC (AP):			
Date: September 12, 2005		Top of Screen:		Initial Well Depth:			
Sampled by (print and sign): Brian Hasik 		Product Thickness in inches: 8					
		Water Level from TOC: 4.42		Time: 12:14			
Notes:		Water Level pre-purge: 4.42		Time: 12:35			
		Well Type: <input checked="" type="checkbox"/> Monitor <input type="checkbox"/> Extraction <input type="checkbox"/> Other:					
		Well EL (TOC):		Well Mat: PVC			
WEATHER							
Wind: Yes / No <input checked="" type="checkbox"/>		Clouds: Yes / No <input checked="" type="checkbox"/>		Sun: Yes / No <input checked="" type="checkbox"/>		Precipitation in last 5 days: Yes / No <input checked="" type="checkbox"/>	
Rain: Yes / No <input checked="" type="checkbox"/>		Fog: Yes / No <input checked="" type="checkbox"/>					
VOLUME OF WATER TO BE REMOVED BEFORE SAMPLING							
$\left( \frac{\text{TD} - \text{WL}}{\text{Dia. Inches}} \right)^2 \times 0.0408 = 0.59 \text{ gallons in one well volume}$							
$1.76 \text{ gallons in 3 well volumes (Approx. 0.6 gal/ft)} \quad 5 \text{ total gallons purged}$							
FIELD MEASUREMENTS DURING PURGING							
Stable Field Parameters Required Prior to Sample Collection <10% pH and EC change, <0.2°C temp. change							
Time	Gallons	pH	TEMP °C	ORP	DO mg/L	EC mS / µS	Turbidity H/M/L
12:40	1	6.55	25.0	142		2729	L
12:42	2	6.61	24.2	132		2730	L
12:43	3	6.63	24.1	123		2728	L
12:44	4	6.68	24.2	118		2720	L
12:45	5	6.68	24.1	117		2722	L
Minimum of 5 gallons or 0.6 gal/ft. Of water in casing - whichever is greater and field parameters must be stable.							
Water Level Before Sampling: 4.45				Time: 2:00			
Appearance of Sample:							
Bailer: Disposable      Pump: 12V Submersible (1-2 gpm)							
DECON. METHOD: TSP or Liquinox (phosphate free) Wash / Double Rinse							
NUMBER OF DRUMS GENERATED: Water: 2(1)      Soil: 0      Other: 0							

# GROUNDWATER FIELD SAMPLING FORM

## WELL INFORMATION

Project Number/Name: 1301.01 Pipeline Excavators		Well Number: MW-4
Project Location: 5715 Sebastopol Road Sebastopol, California	Casing Diameter: 2"	Well Depth from TOC (BP): 10.40 Well Depth from TOC (AP):
Date: September 12, 2005	Top of Screen:	Initial Well Depth:
Sampled by (print and sign): Brian Hasik	Product Thickness in inches: 8	
	Water Level from TOC: 7.92	Time: 12:21
Notes: Dry just before 3g	Water Level pre-purge: 7.92	Time: 1:03
	Well Type: <input checked="" type="checkbox"/> Monitor <input type="checkbox"/> Extraction <input type="checkbox"/> Other:	
	Well EL (TOC):	Well Mat: PVC

## WEATHER

Wind: Yes/No	Clouds: Yes/No	Sun: Yes/No	Precipitation in last 5 days: Yes/No
Rain: Yes/No	Fog: Yes/No		

## VOLUME OF WATER TO BE REMOVED BEFORE SAMPLING

( ) - ( ) X ( )<sup>2</sup> X 0.0408 = 0.40 gallons in one well volume  
 TD WL Dia. Inches  
 1.20 gallons in 3 well volumes (Approx. 0.6 gal/ft) -3 total gallons purged

## FIELD MEASUREMENTS DURING PURGING


Stable Field Parameters Required Prior to Sample Collection <10% pH and EC change, <0.2°C temp. change

Time	Gallons	pH	TEMP °C	ORP	DO mg/L	EC mS / µS	Turbidity H/M/L
1-05	1	6.68	22.4	111		1855	L
1-06	2	6.74	22.4	96		1830	L
1-07	-3	6.72	22.5	86		1839	L

Minimum of 5 gallons or 0.6 gal/ft. Of water in casing - whichever is greater and field parameters must be stable.

Water Level Before Sampling: 7.95	Time: 2:15
Appearance of Sample:	
Bailer: Disposable	Pump: 12V Submersible (1-2 gpm)
DECON. METHOD: TSP or Liquinox (phosphate free) Wash / Double Rinse	
NUMBER OF DRUMS GENERATED: Water: 2(1) Soil: 0 Other: 0	


# GROUNDWATER FIELD SAMPLING FORM

WELL INFORMATION							
Project Number/Name: 1301.01 Pipeline Excavators				Well Number: MW-5			
Project Location: 5715 Sebastopol Road Sebastopol, California		Casing Diameter: 2"		Well Depth from TOC (BP): 8.50 Well Depth from TOC (AP): ≈			
Date: September 12, 2005		Top of Screen:		Initial Well Depth:			
Sampled by (print and sign): Brian Hasik 		Product Thickness in inches: 8		Water Level from TOC: 7.68 Time: 11:12			
		Water Level pre-purge: 7.68		Time: 12:25			
Notes: could not use pump purged w/ bailers ≈ 1/8 g until dry		Well Type: <input checked="" type="checkbox"/> Monitor <input type="checkbox"/> Extraction <input type="checkbox"/> Other:		Well EL (TOC):			
				Well Mat: PVC			
WEATHER							
Wind: Yes/No <input checked="" type="checkbox"/>		Clouds: Yes/No <input checked="" type="checkbox"/>		Sun: Yes/No <input checked="" type="checkbox"/>		Precipitation in last 5 days: Yes/No <input checked="" type="checkbox"/>	
Rain: Yes/No <input checked="" type="checkbox"/>		Fog: Yes/No <input checked="" type="checkbox"/>					
VOLUME OF WATER TO BE REMOVED BEFORE SAMPLING							
$\left( \frac{\text{TD}}{\text{WL}} - \frac{\text{Dia. Inches}}{2} \right)^2 \times 0.0408 = 0.13 \text{ gallons in one well volume}$							
$0.39 \text{ gallons in 3 well volumes (Approx. 0.6 gal/ft)} \approx 0.13 \text{ total gallons purged}$							
FIELD MEASUREMENTS DURING PURGING							
Stable Field Parameters Required Prior to Sample Collection <10% pH and EC change, <0.2°C temp. change							
Time	Gallons	pH	TEMP °C	ORP	DO mg/L	EC mS / μS	Turbidity H/M/L
			N/A				
Minimum of 5 gallons or 0.6 gal/ft. Of water in casing - whichever is greater and field parameters must be stable.							
Water Level Before Sampling: 7.68				Time: 1:45			
Appearance of Sample: 1-5 silty							
Bailer: Disposable		Pump: 12V Submersible (1-2 gpm)					
DECON. METHOD: TSP or Liquinox (phosphate free) Wash / Double Rinse							
NUMBER OF DRUMS GENERATED: Water: 2(1) Soil: 8 Other: 8							



# GROUNDWATER FIELD SAMPLING FORM

## WELL INFORMATION

Project Number/Name: 1301.01 Pipeline Excavators		Well Number: MW-6
Project Location: 5715 Sebastopol Road Sebastopol, California	Casing Diameter: 2"	Well Depth from TOC (BP): 9.10 Well Depth from TOC (AP):
Date: September 12, 2005	Top of Screen: Initial Well Depth:	
Sampled by (print and sign): Brian Hasik 	Product Thickness in inches: 0	
	Water Level from TOC: 4.19	Time: 12:22
Notes: 2y @ 3y	Water Level pre-purge: 4.19	Time: 1:11
	Well Type: <input type="checkbox"/> Monitor <input checked="" type="checkbox"/> Extraction <input type="checkbox"/> Other:	
	Well EL (TOC):	Well Mat: PVC

## WEATHER

Wind: Yes/No <input checked="" type="checkbox"/>	Clouds: Yes/No <input checked="" type="checkbox"/>	Sun: Yes/No <input checked="" type="checkbox"/>	Precipitation in last 5 days: Yes/No <input checked="" type="checkbox"/>
Rain: Yes/No <input checked="" type="checkbox"/>	Fog: Yes/No <input checked="" type="checkbox"/>		

## VOLUME OF WATER TO BE REMOVED BEFORE SAMPLING

( ) - ( ) X ( )<sup>2</sup> X 0.0408 = 0.80 gallons in one well volume  
 TD WL Dia. Inches  
 2.36 gallons in 3 well volumes (Approx. 0.6 gal/ft) 2.3y total gallons purged

## FIELD MEASUREMENTS DURING PURGING

Stable Field Parameters Required Prior to Sample Collection <10% pH and EC change, <0.2°C temp. change

Time	Gallons	pH	TEMP °C	ORP	DO mg/L	EC mS / µS	Turbidity H/M/L
1:12	1	6.56	25.9	57		2068	L
1:13	2	6.52	25.6	60		2720	L
1:14	3	6.53	25.1	62		2391	L


Minimum of 5 gallons or 0.6 gal/ft. Of water in casing - whichever is greater and field parameters must be stable.

Water Level Before Sampling: 4.23	Time: 2:25
Appearance of Sample:	
Bailer: Disposable	Pump: 12V Submersible (1-2 gpm)
DECON. METHOD: TSP or Liquinox (phosphate free) Wash / Double Rinse	
NUMBER OF DRUMS GENERATED: Water: 2(1)	Soil: 0 Other: 0



# GROUNDWATER FIELD SAMPLING FORM

## WELL INFORMATION

Project Number/Name: 1301.01 Pipeline Excavators		Well Number: MW-7
Project Location: 5715 Sebastopol Road Sebastopol, California	Casing Diameter: 2"	Well Depth from TOC (BP): 9.90 Well Depth from TOC (AP):
Date: September 12, 2005	Top of Screen: Initial Well Depth:	
Sampled by (print and sign): Brian Hasik 	Product Thickness in inches:	
	Water Level from TOC: 5.24	Time: 12:19
Notes: Dry @ 2.5	Water Level pre-purge: 5.24	Time: 12:57
	Well Type: <input checked="" type="checkbox"/> Monitor <input checked="" type="checkbox"/> Extraction <input type="checkbox"/> Other:	
	Well EL (TOC):	Well Mat: PVC

## WEATHER

Wind: Yes/No <input checked="" type="checkbox"/>	Clouds: Yes/No <input checked="" type="checkbox"/>	Sun: Yes/No <input checked="" type="checkbox"/>	Precipitation in last 5 days: Yes/No <input checked="" type="checkbox"/>
Rain: Yes/No <input checked="" type="checkbox"/>	Fog: Yes/No <input checked="" type="checkbox"/>		

## VOLUME OF WATER TO BE REMOVED BEFORE SAMPLING

(     -     ) X (    )<sup>2</sup> X 0.0408 = 0.75 gallons in one well volume

TD 2.24 WL 2.5 Dia. Inches

2.24 gallons in 3 well volumes (Approx. 0.6 gal/ft) 2.5 total gallons purged

## FIELD MEASUREMENTS DURING PURGING

Stable Field Parameters Required Prior to Sample Collection <10% pH and EC change, <0.2°C temp. change.

Time	Gallons	pH	TEMP °C	ORP	DO mg/L	EC mS / µS	Turbidity H/M/L
12:52	1	6.27	22.7	175		1768	L
12:53	2	6.28	22.4	173		1864	L
12:54	2.5	6.26	22.2	170		1903	L

Minimum of 5 gallons or 0.6 gal/ft. Of water in casing - whichever is greater and field parameters must be stable.

Water Level Before Sampling: 5.24	Time: 2:05
Appearance of Sample:	
Bailer: Disposable	Pump: 12V Submersible (1-2 gpm)
DECON. METHOD: TSP or Liquinox (phosphate free) Wash / Double Rinse	
NUMBER OF DRUMS GENERATED: Water: 2(1)	Soil: 0 Other: 0

## APPENDIX B

**Appendix B: Historical Groundwater Elevation and Gradient Data**  
**Pipeline Excavators**

Sample Date	Monitoring Well ID	TOC Elevation ( feet - msl )	Water Level Depth ( feet )	Water Level Elevation ( feet -msl )	Groundwater Flow Direction/Gradient (i)
06/06/01	MW-1	68.71	3.03	65.68	N 82° E i = 0.023
	MW-2	68.15	3.06	65.09	
	MW-3	68.92	3.85	65.07	
07/23/01	MW-1	68.71	4.22	64.49	N73°E i = 0.013
	MW-2	68.15	4.35	63.80	
	MW-3	68.92	5.12	63.80	
08/29/01	MW-1	68.71	5.03	63.68	N65°E i = 0.01
	MW-2	68.15	5.06	63.09	
	MW-3	68.92	5.72	63.20	
09/13/01	MW-1	68.71	5.21	63.50	NA
	MW-2	68.15	NA	NA	
	MW-3	68.92	5.90	63.02	
10/24/01	MW-1	68.71	5.55	63.16	N58°E i = 0.01
	MW-2	68.15	5.61	62.54	
	MW-3	68.92	6.16	62.76	
12/13/01	MW-1	68.81	2.76	66.05	S30°W i = 0.002
	MW-2	68.93	2.54	66.39	
	MW-3	69.31	3.18	66.13	
1/23/01	MW-1	68.81	2.24	66.57	S40°W i = 0.004
	MW-2	68.93	2.22	66.71	
	MW-3	69.31	2.76	66.55	



**Appendix B: continued**

Sample Date	Monitoring Well ID	TOC Elevation ( feet - msl )	Water Level Depth ( feet )	Water Level Elevation ( feet -msl )	Groundwater Flow Direction/Gradient (i)
2/21/02	MW-1	68.81	1.24	67.57	S45°W i = 0.006
	MW-2	68.93	1.16	67.77	
	MW-3	69.31	1.75	67.56	
	MW-4	72.04	4.09	67.95	
	MW-5	72.14	3.95	68.19	
	MW-6	68.16	1.05	67.11	
	MW-7	68.37	2.13	66.24	
03/13/02	MW-1	68.81	1.13	67.68	S45°W i = 0.006
	MW-2	68.93	1.18	67.75	
	MW-3	69.31	1.62	67.69	
	MW-4	72.04	4.03	68.01	
	MW-5	72.14	3.93	68.21	
	MW-6	68.16	0.96	67.20	
	MW-7	68.37	2.14	66.23	
04/24/02	MW-1	68.81	2.43	66.38	S40°W i = 0.005
	MW-2	68.93	2.46	66.47	
	MW-3	69.31	3.09	66.22	
	MW-4	72.04	5.73	66.31	
	MW-5	72.14	5.50	66.64	
	MW-6	68.16	2.31	65.85	
	MW-7	68.37	2.92	65.40	



**Appendix B: continued**

Sample Date	Monitoring Well ID	TOC Elevation ( feet - msl )	Water Level Depth ( feet )	Water Level Elevation ( feet -msl )	Groundwater Flow Direction/Gradient (i)
05/20/02	MW-1	68.81	2.71	66.10	S35°W i = 0.007
	MW-2	68.93	3.61	65.32	
	MW-3	69.31	3.41	65.90	
	MW-4	72.04	6.05	65.99	
	MW-5	72.14	5.82	66.32	
	MW-6	68.16	2.69	65.47	
	MW-7	68.37	3.34	65.03	
07/16/02	MW-1	68.81	3.65	65.16	Southerly i = 0.007
	MW-2	68.93	3.67	65.26	
	MW-3	69.31	4.42	64.89	
	MW-4	72.04	7.11	64.93	
	MW-5	72.14	6.86	65.28	
	MW-6	68.16	3.72	64.44	
	MW-7	68.37	4.34	64.03	
09/06/02	MW-1	68.81	4.36	64.45	S35°W i = 0.005
	MW-2	68.93	4.45	64.48	
	MW-3	69.31	4.98	64.33	
	MW-4	72.04	7.78	64.26	
	MW-5	72.14	7.60	64.54	
	MW-6	68.16	3.97	64.19	
	MW-7	68.37	5.52	62.85	





**Appendix B: continued**

Sample Date	Monitoring Well ID	TOC Elevation ( feet - msl )	Water Level Depth ( feet )	Water Level Elevation ( feet -msl )	Groundwater Flow Direction/Gradient (i)
12/18/02	MW-1	68.81	2.78	66.03	West / Southwest i = varies
	MW-2	68.93	2.56	66.37	
	MW-3	69.31	3.13	66.18	
	MW-4	72.04	5.31	66.73	
	MW-5	72.14	5.24	66.90	
	MW-6	68.16	2.11	66.05	
	MW-7	68.37	4.18	64.19	
03/19/03	MW-1	68.81	1.14	67.67	Southwest i = 0.01
	MW-2	68.93	1.16	67.77	
	MW-3	69.31	1.69	67.62	
	MW-4	72.04	4.11	67.93	
	MW-5	72.14	3.97	68.17	
	MW-6	68.16	1.06	67.10	
	MW-7	68.37	2.02	66.35	



**Appendix B: continued**

Sample Date	Monitoring Well ID	TOC Elevation ( feet - msl )	Water Level Depth ( feet )	Water Level Elevation ( feet -msl )	Groundwater Flow Direction/Gradient (i)
07/09/03	MW-1	68.81	3.23	65.58	Westerly i = 0.004
	MW-2	68.93	3.24	65.69	
	MW-3	69.31	4.03	65.28	
	MW-4	72.04	6.71	65.33	
	MW-5	72.14	6.45	65.69	
	MW-6	68.16	3.15	65.01	
	MW-7	68.37	3.77	64.60	
09/16/03	MW-1	68.81	4.24	64.57	West/Southwest i = varies
	MW-2	68.93	4.43	64.50	
	MW-3	69.31	5.02	64.29	
	MW-4	72.04	7.76	64.28	
	MW-5	72.14	7.52	64.62	
	MW-6	68.16	4.16	64.00	
	MW-7	68.37	5.13	63.24	
12/02/03	MW-1	68.81	3.61	65.20	Westerly i = 0.04
	MW-2	68.93	3.40	65.53	
	MW-3	69.31	4.12	65.19	
	MW-4	72.04	6.42	65.62	
	MW-5	72.14	6.25	65.89	
	MW-6	68.16	3.01	65.15	
	MW-7	68.37	5.06	63.31	



**Appendix B: continued**

Sample Date	Monitoring Well ID	TOC Elevation ( feet - msl )	Water Level Depth ( feet )	Water Level Elevation ( feet -msl )	Groundwater Flow Direction/Gradient, i (feet/foot)
3/31/04*	MW-1	70.83	1.40	69.43	Southwest to Northwest i = 0.02
	MW-2	70.95	1.47	69.48	
	MW-3	71.32	2.00	69.32	
	MW-4	74.05	4.49	69.56	
	MW-5	74.14	4.30	69.84	
	MW-6	70.16	0.45	69.71	
	MW-7	70.35	2.24	68.11	
* = wells were re-surveyed on February 24, 2004					
6/08/04	MW-1	70.83	3.50	67.33	Southwesterly i = 0.014
	MW-2	70.95	3.53	67.42	
	MW-3	71.32	4.28	67.04	
	MW-4	74.05	7.03	67.02	
	MW-5	74.14	6.75	67.39	
	MW-6	70.16	3.40	66.76	
	MW-7	70.35	4.13	66.22	
9/07/04	MW-1	70.83	5.22	65.61	S45°W i = 0.005
	MW-2	70.95	5.32	65.63	
	MW-3	71.32	5.96	65.36	
	MW-4	74.05	8.71	65.34	
	MW-5	74.14	8.55	65.59	
	MW-6	70.16	5.01	65.15	
	MW-7	70.35	6.22	65.13	



**Appendix B: continued**

Sample Date	Monitoring Well ID	TOC Elevation ( feet - msl )	Water Level Depth ( feet )	Water Level Elevation ( feet -msl )	Groundwater Flow Direction/Gradient, i (feet/foot)
12/09/04	MW-1	70.83	4.20	66.63	Southwesterly i = 0.007
	MW-2	70.95	3.77	67.18	
	MW-3	----removed----			
	MW-4	74.05	6.54	67.51	
	MW-5	74.14	NA	NA	
	MW-6	70.16	3.60	66.56	
	MW-7	70.35	NA	NA	
03/31/05	MW-1	70.83	1.27	69.56	Southwesterly i = 0.008
	MW-2	70.95	1.35	69.60	
	MW-3	----removed----			
	MW-4	74.05	4.00	70.05	
	MW-5	74.14	3.95	70.19	
	MW-6	70.16	1.05	69.11	
	MW-7	70.35	2.15	68.20	
06/27/05	MW-1	70.83	2.59	68.24	Southwesterly i = 0.02
	MW-2	70.95	2.72	68.23	
	MW-3	----removed----			
	MW-4	74.05	6.23	67.82	
	MW-5	74.14	5.95	68.19	
	MW-6	70.16	2.32	67.84	
	MW-7	70.35	3.45	66.90	



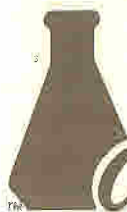
**Appendix B: continued**

Sample Date	Monitoring Well ID	TOC Elevation ( feet - msl )	Water Level Depth ( feet )	Water Level Elevation ( feet -msl )	Groundwater Flow Direction/Gradient (i)
09/12/05	MW-1	70.83	4.14	66.69	Southwesterly i = 0.02
	MW-2	70.95	4.42	66.53	
	MW-3	----removed----			
	MW-4	74.05	7.92	66.13	
	MW-5	74.14	7.68	66.46	
	MW-6	70.16	4.19	65.97	
	MW-7	70.35	5.24	65.11	





## APPENDIX C



alpha

Alpha Analytical Laboratories Inc.

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208 Mason St. Ukiah, California 95482

Phone: (707) 468-0401 • Fax: (707) 468-5267

1301.01

27 September 2005

Trans Tech Consultants

Attn: Bill Wiggins

930 Shiloh Rd., Bldg.44, Suite J

Windsor, CA 95492

RE: Leland Smith/Pipeline Excavators

Work Order: A509330

Enclosed are the results of analyses for samples received by the laboratory on 09/13/05 15:25. If you have any questions concerning this report, please feel free to contact me.

Sincerely,

Nena M. Burgess For Sheri L. Speaks  
Project Manager



Alpha Analytical Laboratories Inc.

208 Mason St. Ukiah, California 95482

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## CHEMICAL EXAMINATION REPORT

Page 1 of 15

Trans Tech Consultants  
930 Shiloh Rd., Bldg.44, Suite J  
Windsor, CA 95492  
Attn: Bill Wiggins

Report Date: 09/27/05 14:54  
Project No: 1301.01  
Project ID: Leland Smith/Pipeline Excavators

Order Number  
A509330

Receipt Date/Time  
09/13/2005 15:25

Client Code  
TRANSTEC

Client PO/Reference

### ANALYTICAL REPORT FOR SAMPLES

Sample ID	Laboratory ID	Matrix	Date Sampled	Date Received
MW-1	A509330-01	Water	09/12/05 14:30	09/13/05 15:25
MW-2	A509330-02	Water	09/12/05 14:00	09/13/05 15:25
MW-4	A509330-03	Water	09/12/05 14:15	09/13/05 15:25
MW-5	A509330-04	Water	09/12/05 13:45	09/13/05 15:25
MW-6	A509330-05	Water	09/12/05 14:25	09/13/05 15:25
MW-7	A509330-06	Water	09/12/05 14:05	09/13/05 15:25
DW-6100	A509330-07	Water	09/12/05 11:40	09/13/05 15:25
DW-6140	A509330-08	Water	09/12/05 12:00	09/13/05 15:25

The results in this report apply to the samples analyzed in accordance with the chain of custody document. This analytical report must be reproduced in its entirety.

Nena M. Burgess For Sheri L. Speaks  
Project Manager

9/27/2005



Alpha Analytical Laboratories Inc.

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## CHEMICAL EXAMINATION REPORT

Page 2 of 15

Trans Tech Consultants  
930 Shiloh Rd., Bldg.44, Suite J  
Windsor, CA 95492  
Attn: Bill Wiggins

Report Date: 09/27/05 14:54  
Project No: 1301.01  
Project ID: Leland Smith/Pipeline Excavators

Order Number	Receipt Date/Time	Client Code	Client PO/Reference
A509330	09/13/2005 15:25	TRANSTEC	

### Alpha Analytical Laboratories, Inc.

	METHOD	BATCH	PREPARED	ANALYZED	DILUTION	RESULT	PQL	NOTE
MW-1 (A509330-01)	Sample Type: Water				Sampled: 09/12/05 14:30			
TPH by EPA/LUFT GC/GCMS Methods								
TPH as Diesel	8015DRO	AI52607	09/26/05	09/26/05	0.9302	230 ug/l	47	D-07
TPH as Gasoline	8260GRO	AI52625	09/21/05	09/23/05	20	1300 "	1000	
Surrogate: Tetraetracontane	8015DRO	AI52607	09/26/05	09/26/05		84.0 %	20-152	
Surrogate: Toluene-d8	8260GRO	AI52625	09/21/05	09/23/05		113 %	86-141	

### Volatile Organic Compounds by EPA Method 8260B

R-04

Benzene	EPA 8260B	AI52702	09/21/05	09/23/05	20	ND ug/l	6.0
Toluene	"	"	"	"	"	ND "	6.0
Ethylbenzene	"	"	"	"	"	ND "	10
Xylenes (total)	"	"	"	"	"	ND "	10
Methyl tert-butyl ether	"	"	"	"	"	43 "	10
Di-isopropyl ether	"	"	"	"	"	ND "	10
Ethyl tert-butyl ether	"	"	"	"	"	ND "	10
Tert-amyl methyl ether	"	"	"	"	"	ND "	10
Tert-butyl alcohol	"	"	"	"	"	ND "	200
1,2-Dichloroethane	"	"	"	"	"	ND "	10
Chlorobenzene	"	"	"	"	"	ND "	10
1,3-Dichlorobenzene	"	"	"	"	"	ND "	10
1,4-Dichlorobenzene	"	"	"	"	"	ND "	10
1,2-Dichlorobenzene	"	"	"	"	"	ND "	10
1,2-Dibromoethane (EDB)	"	"	"	"	"	ND "	10
Surrogate: Bromofluorobenzene	"	"	"	"		102 %	78-138
Surrogate: Dibromofluoromethane	"	"	"	"		91.4 %	71-136
Surrogate: Toluene-d8	"	"	"	"		113 %	88-139

### MW-2 (A509330-02)

Sample Type: Water

Sampled: 09/12/05 14:00

### TPH by EPA/LUFT GC/GCMS Methods

TPH as Diesel	8015DRO	AI52607	09/26/05	09/26/05	0.9302	97 ug/l	47
TPH as Gasoline	8260GRO	AI52625	09/21/05	09/23/05	10	ND "	500 R-04
Surrogate: Tetraetracontane	8015DRO	AI52607	09/26/05	09/26/05		142 %	20-152
Surrogate: Toluene-d8	8260GRO	AI52625	09/21/05	09/23/05		111 %	86-141 R-04

The results in this report apply to the samples analyzed in accordance with the chain of custody document. This analytical report must be reproduced in its entirety.

Nena M. Burgess For Sheri L. Speaks  
Project Manager

9/27/2005



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## CHEMICAL EXAMINATION REPORT

Page 3 of 15

Trans Tech Consultants  
930 Shiloh Rd., Bldg.44, Suite J  
Windsor, CA 95492  
Attn: Bill Wiggins

Report Date: 09/27/05 14:54  
Project No: 1301.01  
Project ID: Leland Smith/Pipeline Excavators

Order Number  
A509330

Receipt Date/Time  
09/13/2005 15:25

Client Code  
TRANSTEC

Client PO/Reference

### Alpha Analytical Laboratories, Inc.

	METHOD	BATCH	PREPARED	ANALYZED	DILUTION	RESULT	PQL	NOTE
MW-2 (A509330-02)	Sample Type: Water				Sampled: 09/12/05 14:00			
Volatile Organic Compounds by EPA Method 8260B								R-04
Benzene	EPA 8260B	AI52702	09/21/05	09/23/05	10	ND ug/l	3.0	
Toluene	"	"	"	"	"	ND "	3.0	
Ethylbenzene	"	"	"	"	"	ND "	5.0	
Xylenes (total)	"	"	"	"	"	ND "	5.0	
Methyl tert-butyl ether	"	"	"	"	"	19 "	5.0	
Di-isopropyl ether	"	"	"	"	"	ND "	5.0	
Ethyl tert-butyl ether	"	"	"	"	"	ND "	5.0	
Tert-amyl methyl ether	"	"	"	"	"	ND "	5.0	
Tert-butyl alcohol	"	"	"	"	"	ND "	100	
1,2-Dichloroethane	"	"	"	"	"	ND "	5.0	
Chlorobenzene	"	"	"	"	"	ND "	5.0	
1,3-Dichlorobenzene	"	"	"	"	"	ND "	5.0	
1,4-Dichlorobenzene	"	"	"	"	"	ND "	5.0	
1,2-Dichlorobenzene	"	"	"	"	"	ND "	5.0	
1,2-Dibromoethane (EDB)	"	"	"	"	"	ND "	5.0	
Surrogate: Bromofluorobenzene	"	"	"	"		102 %	78-138	
Surrogate: Dibromofluoromethane	"	"	"	"		94.0 %	71-136	
Surrogate: Toluene-d8	"	"	"	"		111 %	88-139	

MW-4 (A509330-03)		Sample Type: Water				Sampled: 09/12/05 14:15		
TPH by EPA/LUFT GC/GCMS Methods								
TPH as Diesel	8015DRO	AI52607	09/26/05	09/26/05	1	ND ug/l	100	
TPH as Gasoline	8260GRO	AI52625	09/21/05	09/23/05	20	ND "	1000	R-04
<hr/>								
Surrogate: Tetratetracontane	8015DRO	AI52607	09/26/05	09/26/05		100 %	20-152	
Surrogate: Toluene-d8	8260GRO	AI52625	09/21/05	09/23/05		110 %	86-141	R-04

The results in this report apply to the samples analyzed in accordance with the chain of custody document. This analytical report must be reproduced in its entirety.

Nena M. Burgess For Sheri L. Speaks  
Project Manager

9/27/2005





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## CHEMICAL EXAMINATION REPORT

Page 4 of 15

Trans Tech Consultants  
930 Shiloh Rd., Bldg.44, Suite J  
Windsor, CA 95492  
Attn: Bill Wiggins

Report Date: 09/27/05 14:54  
Project No: 1301.01  
Project ID: Leland Smith/Pipeline Excavators

Order Number	Receipt Date/Time	Client Code	Client PO/Reference
A509330	09/13/2005 15:25	TRANSTEC	

### Alpha Analytical Laboratories, Inc.

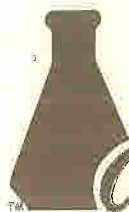
	METHOD	BATCH	PREPARED	ANALYZED	DILUTION	RESULT	PQL	NOTE
MW-4 (A509330-03)	Sample Type: Water					Sampled: 09/12/05 14:15		
Volatile Organic Compounds by EPA Method 8260B								R-04
Benzene	EPA 8260B	AI52702	09/21/05	09/23/05	20	ND ug/l	6.0	
Toluene	"	"	"	"	"	ND "	6.0	
Ethylbenzene	"	"	"	"	"	ND "	10	
Xylenes (total)	"	"	"	"	"	ND "	10	
Methyl tert-butyl ether	"	"	"	"	"	34 "	10	
Di-isopropyl ether	"	"	"	"	"	ND "	10	
Ethyl tert-butyl ether	"	"	"	"	"	ND "	10	
Tert-amyl methyl ether	"	"	"	"	"	ND "	10	
Tert-butyl alcohol	"	"	"	"	"	ND "	200	
1,2-Dichloroethane	"	"	"	"	"	ND "	10	
Chlorobenzene	"	"	"	"	"	ND "	10	
1,3-Dichlorobenzene	"	"	"	"	"	ND "	10	
1,4-Dichlorobenzene	"	"	"	"	"	ND "	10	
1,2-Dichlorobenzene	"	"	"	"	"	ND "	10	
1,2-Dibromoethane (EDB)	"	"	"	"	"	ND "	10	
Surrogate: Bromofluorobenzene	"	"	"	"		103 %	78-138	
Surrogate: Dibromofluoromethane	"	"	"	"		108 %	71-136	
Surrogate: Toluene-d8	"	"	"	"		110 %	88-139	

MW-5 (A509330-04)		Sample Type: Water				Sampled: 09/12/05 13:45		
TPH by EPA/LUFT GC/GCMS Methods								
TPH as Diesel	8015DRO	AI52607	09/26/05	09/26/05	1	550 ug/l	50	D-09
TPH as Gasoline	8260GRO	AI52625	09/21/05	09/23/05	"	ND "	50	
Surrogate: Tetratetracontane	8015DRO	AI52607	09/26/05	09/26/05		127 %	20-152	
Surrogate: Toluene-d8	8260GRO	AI52625	09/21/05	09/23/05		112 %	86-141	

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Nena M. Burgess For Sheri L. Speaks  
Project Manager

9/27/2005



# Alpha

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## CHEMICAL EXAMINATION REPORT

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Trans Tech Consultants  
930 Shiloh Rd., Bldg.44, Suite J  
Windsor, CA 95492  
Attn: Bill Wiggins

Report Date: 09/27/05 14:54  
Project No: 1301.01  
Project ID: Leland Smith/Pipeline Excavators

Order Number	Receipt Date/Time	Client Code	Client PO/Reference
A509330	09/13/2005 15:25	TRANSTEC	

### Alpha Analytical Laboratories, Inc.

	METHOD	BATCH	PREPARED	ANALYZED	DILUTION	RESULT	PQL	NOTE
MW-5 (A509330-04)		Sample Type: Water				Sampled: 09/12/05 13:45		
Volatile Organic Compounds by EPA Method 8260B								
Benzene	EPA 8260B	AI52702	09/21/05	09/23/05	1	ND ug/l	0.30	
Toluene	"	"	"	"	"	ND "	0.30	
Ethylbenzene	"	"	"	"	"	ND "	0.50	
Xylenes (total)	"	"	"	"	"	ND "	0.50	
Methyl tert-butyl ether	"	"	"	"	"	17 "	0.50	
Di-isopropyl ether	"	"	"	"	"	ND "	0.50	
Ethyl tert-butyl ether	"	"	"	"	"	ND "	0.50	
Tert-amyl methyl ether	"	"	"	"	"	ND "	0.50	
Tert-butyl alcohol	"	"	"	"	"	ND "	10	
1,2-Dichloroethane	"	"	"	"	"	ND "	0.50	
Chlorobenzene	"	"	"	"	"	ND "	0.50	
1,3-Dichlorobenzene	"	"	"	"	"	ND "	0.50	
1,4-Dichlorobenzene	"	"	"	"	"	ND "	0.50	
1,2-Dichlorobenzene	"	"	"	"	"	ND "	0.50	
1,2-Dibromoethane (EDB)	"	"	"	"	"	ND "	0.50	
Surrogate: Bromofluorobenzene	"	"	"	"		102 %	78-138	
Surrogate: Dibromofluoromethane	"	"	"	"		94.0 %	71-136	
Surrogate: Toluene-d8	"	"	"	"		112 %	88-139	

MW-6 (A509330-05)		Sample Type: Water				Sampled: 09/12/05 14:25		
TPH by EPA/LUFT GC/GCMS Methods								
TPH as Diesel	8015DRO	AI52607	09/26/05	09/27/05	0.9302	ND ug/l	93	QB-03
TPH as Gasoline	8260GRO	AI52625	09/21/05	09/23/05	1	ND "	50	
Surrogate: Tetraetracontane	8015DRO	AI52607	09/26/05	09/27/05		108 %	20-152	
Surrogate: Toluene-d8	8260GRO	AI52625	09/21/05	09/23/05		114 %	86-141	

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Nena M. Burgess For Sheri L. Speaks  
Project Manager

9/27/2005



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## CHEMICAL EXAMINATION REPORT

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Trans Tech Consultants  
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Attn: Bill Wiggins

Report Date: 09/27/05 14:54  
Project No: 1301.01  
Project ID: Leland Smith/Pipeline Excavators

Order Number	Receipt Date/Time	Client Code	Client PO/Reference
A509330	09/13/2005 15:25	TRANSTEC	

## Alpha Analytical Laboratories, Inc.

METHOD	BATCH	PREPARED	ANALYZED	DILUTION	RESULT	PQL	NOTE
MW-6 (A509330-05)		Sample Type: Water			Sampled: 09/12/05 14:25		
Volatile Organic Compounds by EPA Method 8260B							
Benzene	EPA 8260B	AI52702	09/21/05	09/23/05	1	ND ug/l	0.30
Toluene	"	"	"	"	"	ND "	0.30
Ethylbenzene	"	"	"	"	"	ND "	0.50
Xylenes (total)	"	"	"	"	"	ND "	0.50
Methyl tert-butyl ether	"	"	"	"	"	2.7 "	0.50
Di-isopropyl ether	"	"	"	"	"	ND "	0.50
Ethyl tert-butyl ether	"	"	"	"	"	ND "	0.50
Tert-amyl methyl ether	"	"	"	"	"	ND "	0.50
Tert-butyl alcohol	"	"	"	"	"	ND "	10
1,2-Dichloroethane	"	"	"	"	"	ND "	0.50
Chlorobenzene	"	"	"	"	"	ND "	0.50
1,3-Dichlorobenzene	"	"	"	"	"	ND "	0.50
1,4-Dichlorobenzene	"	"	"	"	"	ND "	0.50
1,2-Dichlorobenzene	"	"	"	"	"	ND "	0.50
1,2-Dibromoethane (EDB)	"	"	"	"	"	ND "	0.50
Surrogate: Bromofluorobenzene	"	"	"	"		103 %	78-138
Surrogate: Dibromofluoromethane	"	"	"	"		106 %	71-136
Surrogate: Toluene-d8	"	"	"	"		114 %	88-139

## MW-7 (A509330-06)

Sample Type: Water

Sampled: 09/12/05 14:05

## TPH by EPA/LUFT GC/GCMS Methods

TPH as Diesel	8015DRO	AI52607	09/26/05	09/27/05	1	ND ug/l	100
TPH as Gasoline	8260GRO	AI52703	09/25/05	09/26/05	"	ND "	50
Surrogate: Tetratetracontane	8015DRO	AI52607	09/26/05	09/27/05		129 %	20-152
Surrogate: Toluene-d8	8260GRO	AI52703	09/25/05	09/26/05		90.8 %	86-141

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Nena M. Burgess For Sheri L. Speaks  
Project Manager

9/27/2005



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## CHEMICAL EXAMINATION REPORT

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Report Date: 09/27/05 14:54  
Project No: 1301.01  
Project ID: Leland Smith/Pipeline Excavators

Order Number	Receipt Date/Time	Client Code	Client PO/Reference
A509330	09/13/2005 15:25	TRANSTEC	

### Alpha Analytical Laboratories, Inc.

METHOD	BATCH	PREPARED	ANALYZED	DILUTION	RESULT	PQL	NOTE
<b>MW-7 (A509330-06)</b>		<b>Sample Type: Water</b>			<b>Sampled: 09/12/05 14:05</b>		
<b>Volatile Organic Compounds by EPA Method 8260B</b>							<b>R-06</b>
Benzene	EPA 8260B	AI52702	09/21/05	09/23/05	2	ND ug/l	0.60
Toluene	"	"	"	"	"	ND "	0.60
Ethylbenzene	"	"	"	"	"	ND "	1.0
Xylenes (total)	"	"	"	"	"	ND "	1.0
Methyl tert-butyl ether	"	"	"	"	"	43 "	1.0
Di-isopropyl ether	"	"	"	"	"	ND "	1.0
Ethyl tert-butyl ether	"	"	"	"	"	ND "	1.0
Tert-amyl methyl ether	"	"	"	"	"	ND "	1.0
Tert-butyl alcohol	"	"	"	"	"	ND "	20
1,2-Dichloroethane	"	"	"	"	"	7.4 "	1.0
Chlorobenzene	"	"	"	"	"	ND "	1.0
1,3-Dichlorobenzene	"	"	"	"	"	ND "	1.0
1,4-Dichlorobenzene	"	"	"	"	"	ND "	1.0
1,2-Dichlorobenzene	"	"	"	"	"	ND "	1.0
1,2-Dibromoethane (EDB)	"	"	"	"	"	ND "	1.0
Surrogate: Bromofluorobenzene	"	"	"	"		101 %	78-138
Surrogate: Dibromofluoromethane	"	"	"	"		109 %	71-136
Surrogate: Toluene-d8	"	"	"	"		112 %	88-139

### DW-6100 (A509330-07)

Sample Type: Water

Sampled: 09/12/05 11:40

#### TPH by EPA/LUFT GC/GCMS Methods

TPH as Diesel	8015DRO	AI52607	09/26/05	09/27/05	1	ND ug/l	50
TPH as Gasoline	8260GRO	AI52625	09/21/05	09/23/05	"	ND "	50
Surrogate: Tetratetracontane	8015DRO	AI52607	09/26/05	09/27/05		95.2 %	20-152
Surrogate: Toluene-d8	8260GRO	AI52625	09/21/05	09/23/05		112 %	86-141

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Project Manager

9/27/2005



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## CHEMICAL EXAMINATION REPORT

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Report Date: 09/27/05 14:54  
Project No: 1301.01  
Project ID: Leland Smith/Pipeline Excavators

Order Number	Receipt Date/Time	Client Code	Client PO/Reference
A509330	09/13/2005 15:25	TRANSTEC	

## Alpha Analytical Laboratories, Inc.

	METHOD	BATCH	PREPARED	ANALYZED	DILUTION	RESULT	PQL	NOTE
DW-6100 (A509330-07)	Sample Type: Water				Sampled: 09/12/05 11:40			
Volatile Organic Compounds by EPA Method 8260B								
Benzene	EPA 8260B	AI52702	09/21/05	09/23/05	1	ND ug/l	0.30	
Toluene	"	"	"	"	"	ND "	0.30	
Ethylbenzene	"	"	"	"	"	ND "	0.50	
Xylenes (total)	"	"	"	"	"	ND "	0.50	
Methyl tert-butyl ether	"	"	"	"	"	ND "	0.50	
Di-isopropyl ether	"	"	"	"	"	ND "	0.50	
Ethyl tert-butyl ether	"	"	"	"	"	ND "	0.50	
Tert-amyl methyl ether	"	"	"	"	"	ND "	0.50	
Tert-butyl alcohol	"	"	"	"	"	ND "	10	
1,2-Dichloroethane	"	"	"	"	"	ND "	0.50	
Chlorobenzene	"	"	"	"	"	ND "	0.50	
1,3-Dichlorobenzene	"	"	"	"	"	ND "	0.50	
1,4-Dichlorobenzene	"	"	"	"	"	ND "	0.50	
1,2-Dichlorobenzene	"	"	"	"	"	ND "	0.50	
1,2-Dibromoethane (EDB)	"	"	"	"	"	ND "	0.50	
Surrogate: Bromofluorobenzene	"	"	"	"		103 %	78-138	
Surrogate: Dibromofluoromethane	"	"	"	"		105 %	71-136	
Surrogate: Toluene-d8	"	"	"	"		112 %	88-139	

## DW-6140 (A509330-08)

Sample Type: Water

Sampled: 09/12/05 12:00

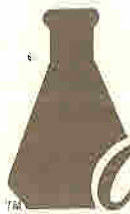
## TPH by EPA/LUFT GC/GCMS Methods

TPH as Diesel	8015DRO	AI52607	09/26/05	09/27/05	1	ND ug/l	50
TPH as Gasoline	8260GRO	AI52625	09/21/05	09/23/05	"	ND "	50
Surrogate: Tetraetracontane	8015DRO	AI52607	09/26/05	09/27/05		110 %	20-152
Surrogate: Toluene-d8	8260GRO	AI52625	09/21/05	09/23/05		114 %	86-141

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Project Manager

9/27/2005



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## CHEMICAL EXAMINATION REPORT

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Report Date: 09/27/05 14:54  
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Project ID: Leland Smith/Pipeline Excavators

Order Number	Receipt Date/Time	Client Code	Client PO/Reference
A509330	09/13/2005 15:25	TRANSTEC	

### Alpha Analytical Laboratories, Inc.

	METHOD	BATCH	PREPARED	ANALYZED	DILUTION	RESULT	PQL	NOTE
DW-6140 (A509330-08)		Sample Type: Water				Sampled: 09/12/05 12:00		
Volatile Organic Compounds by EPA Method 8260B								
Benzene	EPA 8260B	AI52702	09/21/05	09/23/05	1	ND ug/l	0.30	
Toluene	"	"	"	"	"	ND "	0.30	
Ethylbenzene	"	"	"	"	"	ND "	0.50	
Xylenes (total)	"	"	"	"	"	ND "	0.50	
Methyl tert-butyl ether	"	"	"	"	"	ND "	0.50	
Di-isopropyl ether	"	"	"	"	"	ND "	0.50	
Ethyl tert-butyl ether	"	"	"	"	"	ND "	0.50	
Tert-amyl methyl ether	"	"	"	"	"	ND "	0.50	
Tert-butyl alcohol	"	"	"	"	"	ND "	10	
1,2-Dichloroethane	"	"	"	"	"	ND "	0.50	
Chlorobenzene	"	"	"	"	"	ND "	0.50	
1,3-Dichlorobenzene	"	"	"	"	"	ND "	0.50	
1,4-Dichlorobenzene	"	"	"	"	"	ND "	0.50	
1,2-Dichlorobenzene	"	"	"	"	"	ND "	0.50	
1,2-Dibromoethane (EDB)	"	"	"	"	"	ND "	0.50	
Surrogate: Bromofluorobenzene	"	"	"	"		102 %	78-138	
Surrogate: Dibromofluoromethane	"	"	"	"		92.8 %	71-136	
Surrogate: Toluene-d8	"	"	"	"		114 %	88-139	

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Order Number  
A509330

Receipt Date/Time  
09/13/2005 15:25

Client Code  
TRANSTEC

Client PO/Reference

## TPH by EPA/LUFT GC/GCMS Methods - Quality Control

Analyte(s)	Result	PQL	Units	Spike Level	Source Result	%REC	%REC Limits	RPD	RPD Limit	Flag
<b>Batch AI52607 - EPA 3510B Water</b>										
<b>Blank (AI52607-BLK1)</b>				Prepared & Analyzed: 09/26/05						
TPH as Diesel	ND	100	ug/l							QB-03
Surrogate: Tetraetracontane	175		"	125		140	20-152			
<b>LCS (AI52607-BS1)</b>				Prepared & Analyzed: 09/26/05						
TPH as Diesel	1650	50	ug/l	2000		82.5	52-136			
Surrogate: Tetraetracontane	159		"	125		127	20-152			
<b>LCS Dup (AI52607-BSD1)</b>				Prepared & Analyzed: 09/26/05						
TPH as Diesel	1650	50	ug/l	2000		82.5	52-136	0.00	25	
Surrogate: Tetraetracontane	160		"	125		128	20-152			
<b>Batch AI52625 - EPA 5030 Water GCMS</b>										
<b>Blank (AI52625-BLK1)</b>				Prepared: 09/21/05 Analyzed: 09/22/05						
TPH as Gasoline	ND	50	ug/l							
Surrogate: Toluene-d8	27.2		"	25.0		109	86-141			
<b>LCS (AI52625-BS1)</b>				Prepared: 09/21/05 Analyzed: 09/22/05						
TPH as Gasoline	194	50	ug/l	200		97.0	75-126			
Surrogate: Toluene-d8	25.5		"	25.0		102	86-141			
<b>LCS Dup (AI52625-BSD1)</b>				Prepared: 09/21/05 Analyzed: 09/23/05						
TPH as Gasoline	188	50	ug/l	200		94.0	75-126	3.14	20	
Surrogate: Toluene-d8	25.3		"	25.0		101	86-141			
<b>Matrix Spike (AI52625-MS1)</b>				Source: A509330-05 Prepared: 09/21/05 Analyzed: 09/23/05						
TPH as Gasoline	199	50	ug/l	200	ND	92.0	32-166			

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Project Manager

9/27/2005



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Report Date: 09/27/05 14:54  
Project No: 1301.01  
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Order Number	Receipt Date/Time	Client Code	Client PO/Reference
A509330	09/13/2005 15:25	TRANSTEC	

### TPH by EPA/LUFT GC/GCMS Methods - Quality Control

Analyte(s)	Result	PQL	Units	Spike Level	Source Result	%REC	%REC Limits	RPD	RPD Limit	Flag
<b>Batch AI52625 - EPA 5030 Water GCMS</b>										
<b>Matrix Spike (AI52625-MS1)</b>		<b>Source: A509330-05</b>		Prepared: 09/21/05		Analyzed: 09/23/05				
Surrogate: Toluene-d8	25.3		"	25.0		101	86-141			
<b>Batch AI52703 - EPA 5030 Water GCMS</b>										
<b>Blank (AI52703-BLK1)</b>		Prepared: 09/25/05 Analyzed: 09/26/05								
TPH as Gasoline	ND	50	ug/l							
Surrogate: Toluene-d8	22.1		"	25.0		88.4	86-141			
<b>LCS (AI52703-BS1)</b>		Prepared: 09/25/05 Analyzed: 09/26/05								
TPH as Gasoline	212	50	ug/l	200		106	75-126			
Surrogate: Toluene-d8	23.7		"	25.0		94.8	86-141			
<b>LCS Dup (AI52703-BSD1)</b>		Prepared: 09/25/05 Analyzed: 09/26/05								
TPH as Gasoline	237	50	ug/l	200		118	75-126	11.1	20	
Surrogate: Toluene-d8	24.4		"	25.0		97.6	86-141			
<b>Matrix Spike (AI52703-MS1)</b>		<b>Source: A509330-06</b>		Prepared: 09/25/05		Analyzed: 09/26/05				
TPH as Gasoline	261	50	ug/l	200	ND	118	32-166			
Surrogate: Toluene-d8	24.6		"	25.0		98.4	86-141			

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Order Number	Receipt Date/Time	Client Code	Client PO/Reference
A509330	09/13/2005 15:25	TRANSTEC	

### Volatile Organic Compounds by EPA Method 8260B - Quality Control

Analyte(s)	Result	PQL	Units	Spike Level	Source Result	%REC	%REC Limits	RPD	RPD Limit	Flag
<b>Batch AI52702 - EPA 5030 Water GCMS</b>										
<b>Blank (AI52702-BLK1)</b>				Prepared: 09/21/05 Analyzed: 09/22/05						
Benzene	ND	0.30	ug/l							
Toluene	ND	0.30	"							
Ethylbenzene	ND	0.50	"							
Xylenes (total)	ND	0.50	"							
Methyl tert-butyl ether	ND	0.50	"							
Di-isopropyl ether	ND	0.50	"							
Ethyl tert-butyl ether	ND	0.50	"							
Tert-amyl methyl ether	ND	0.50	"							
Tert-butyl alcohol	ND	10	"							
1,2-Dichloroethane	ND	0.50	"							
Chlorobenzene	ND	0.50	"							
1,3-Dichlorobenzene	ND	0.50	"							
1,4-Dichlorobenzene	ND	0.50	"							
1,2-Dichlorobenzene	ND	0.50	"							
1,2-Dibromoethane (EDB)	ND	0.50	"							
Surrogate: Bromofluorobenzene	26.4		"	25.0		106	78-138			
Surrogate: Dibromofluoromethane	25.2		"	25.0		101	71-136			
Surrogate: Toluene-d8	27.2		"	25.0		109	88-139			

<b>LCS (AI52702-BS1)</b>				Prepared: 09/21/05 Analyzed: 09/22/05						
Benzene	5.35	0.30	ug/l	5.00		107	68-129			
Toluene	5.96	0.30	"	5.00		119	76-137			
Ethylbenzene	5.80	0.50	"	5.00		116	78-136			
Xylenes (total)	17.2	0.50	"	15.0		115	76-134			
Methyl tert-butyl ether	5.12	0.50	"	5.00		102	64-141			
Di-isopropyl ether	5.66	0.50	"	5.07		112	80-132			
Ethyl tert-butyl ether	5.41	0.50	"	5.08		106	66-138			

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Project Manager

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Project No: 1301.01  
Project ID: Leland Smith/Pipeline Excavators

Order Number	Receipt Date/Time	Client Code	Client PO/Reference
A509330	09/13/2005 15:25	TRANSTEC	

### Volatile Organic Compounds by EPA Method 8260B - Quality Control

Analyte(s)	Result	PQL	Units	Spike Level	Source Result	%REC	%REC Limits	RPD	RPD Limit	Flag
<b>Batch AI52702 - EPA 5030 Water GCMS</b>										
<b>LCS (AI52702-BS1)</b>				Prepared: 09/21/05 Analyzed: 09/22/05						
Tert-amyl methyl ether	5.38	0.50	"	5.16		104	58-142			
Tert-butyl alcohol	99.6	10	"	98.2		101	70-139			
1,2-Dichloroethane	5.38	0.50	"	5.00		108	65-125			
Chlorobenzene	5.71	0.50	"	5.00		114	75-127			
1,3-Dichlorobenzene	5.78	0.50	"	5.00		116	78-129			
1,4-Dichlorobenzene	5.78	0.50	"	5.00		116	82-124			
1,2-Dichlorobenzene	5.74	0.50	"	5.00		115	81-125			
1,2-Dibromoethane (EDB)	5.50	0.50	"	5.00		110	80-130			
Surrogate: Bromofluorobenzene	27.3		"	25.0		109	78-138			
Surrogate: Dibromofluoromethane	25.8		"	25.0		103	71-136			
Surrogate: Toluene-d8	27.1		"	25.0		108	88-139			
<b>LCS Dup (AI52702-BSD1)</b>				Prepared: 09/21/05 Analyzed: 09/22/05						
Benzene	5.36	0.30	ug/l	5.00		107	68-129	0.187	25	
Toluene	5.68	0.30	"	5.00		114	76-137	4.81	25	
Ethylbenzene	5.57	0.50	"	5.00		111	78-136	4.05	25	
Xylenes (total)	16.8	0.50	"	15.0		112	76-134	2.35	25	
Methyl tert-butyl ether	5.27	0.50	"	5.00		105	64-141	2.89	25	
Di-isopropyl ether	5.54	0.50	"	5.07		109	80-132	2.14	25	
Ethyl tert-butyl ether	5.28	0.50	"	5.08		104	66-138	2.43	25	
Tert-amyl methyl ether	5.38	0.50	"	5.16		104	58-142	0.00	25	
Tert-butyl alcohol	115	10	"	98.2		117	70-139	14.4	25	
1,2-Dichloroethane	5.39	0.50	"	5.00		108	65-125	0.186	25	
Chlorobenzene	5.72	0.50	"	5.00		114	75-127	0.175	25	
1,3-Dichlorobenzene	5.72	0.50	"	5.00		114	78-129	1.04	25	
1,4-Dichlorobenzene	5.58	0.50	"	5.00		112	82-124	3.52	25	
1,2-Dichlorobenzene	5.48	0.50	"	5.00		110	81-125	4.63	25	

The results in this report apply to the samples analyzed in accordance with the chain of custody document. This analytical report must be reproduced in its entirety.

Nena M. Burgess For Sheri L. Speaks  
Project Manager

9/27/2005



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## CHEMICAL EXAMINATION REPORT

Page 14 of 15

Trans Tech Consultants  
930 Shiloh Rd., Bldg.44, Suite J  
Windsor, CA 95492  
Attn: Bill Wiggins

Report Date: 09/27/05 14:54  
Project No: 1301.01  
Project ID: Leland Smith/Pipeline Excavators

Order Number	Receipt Date/Time	Client Code	Client PO/Reference
A509330	09/13/2005 15:25	TRANSTEC	

### Volatile Organic Compounds by EPA Method 8260B - Quality Control

Analyte(s)	Result	PQL	Units	Spike Level	Source Result	%REC	%REC Limits	RPD	RPD Limit	Flag
<b>Batch AI52702 - EPA 5030 Water GCMS</b>										
<b>LCS Dup (AI52702-BSD1)</b>				Prepared: 09/21/05		Analyzed: 09/22/05				
1,2-Dibromoethane (EDB)	5.58	0.50	"	5.00		112	80-130	1.44	25	
Surrogate: Bromofluorobenzene	27.6		"	25.0		110	78-138			
Surrogate: Dibromofluoromethane	26.1		"	25.0		104	71-136			
Surrogate: Toluene-d8	27.3		"	25.0		109	88-139			
<b>Matrix Spike (AI52702-MS1)</b>				Source: A509330-05		Prepared: 09/21/05		Analyzed: 09/22/05		
Benzene	5.49	0.30	ug/l	5.00	ND	110	39-142			
Toluene	5.84	0.30	"	5.00	ND	117	44-148			
Ethylbenzene	5.67	0.50	"	5.00	ND	113	42-148			
Xylenes (total)	16.4	0.50	"	15.0	ND	109	43-145			
Methyl tert-butyl ether	7.95	0.50	"	5.00	2.7	105	29-161			
Di-isopropyl ether	5.67	0.50	"	5.07	ND	112	42-156			
Ethyl tert-butyl ether	5.29	0.50	"	5.08	ND	104	42-151			
Tert-amyl methyl ether	5.33	0.50	"	5.16	ND	103	38-148			
Tert-butyl alcohol	125	10	"	98.2	ND	127	42-171			
1,2-Dichloroethane	5.65	0.50	"	5.00	ND	113	36-136			
Chlorobenzene	5.67	0.50	"	5.00	ND	113	41-140			
1,3-Dichlorobenzene	5.69	0.50	"	5.00	ND	114	42-139			
1,4-Dichlorobenzene	5.60	0.50	"	5.00	ND	112	41-142			
1,2-Dichlorobenzene	5.66	0.50	"	5.00	ND	113	39-145			
1,2-Dibromoethane (EDB)	5.57	0.50	"	5.00	ND	111	40-147			
Surrogate: Bromofluorobenzene	27.0		"	25.0		108	78-138			
Surrogate: Dibromofluoromethane	25.9		"	25.0		104	71-136			
Surrogate: Toluene-d8	26.7		"	25.0		107	88-139			

The results in this report apply to the samples analyzed in accordance with the chain of custody document. This analytical report must be reproduced in its entirety.

Nena M. Burgess For Sheri L. Speaks  
Project Manager

9/27/2005



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208 Mason St, Ukiah, California 95482

## CHEMICAL EXAMINATION REPORT

Page 15 of 15

Trans Tech Consultants  
930 Shiloh Rd., Bldg.44, Suite J  
Windsor, CA 95492  
Attn: Bill Wiggins

Report Date: 09/27/05 14:54  
Project No: 1301.01  
Project ID: Leland Smith/Pipeline Excavators

Order Number	Receipt Date/Time	Client Code	Client PO/Reference
A509330	09/13/2005 15:25	TRANSTEC	

### Notes and Definitions

- R-06 The Reporting Limits for this analysis have been raised to account for matrix interference.
- R-04 The Reporting Limits for this analysis are elevated due to sample foaming.
- QB-03 The method blank contains analyte at a concentration above the MRL; sample reporting limits were raised as necessary.
- D-09 Results in the diesel organics range are primarily due to overlap from a heavy oil range product.
- D-07 Analysis of this sample indicates the presence of hydrocarbons lower in molecular weight than diesel.
- DET Analyte DETECTED
- ND Analyte NOT DETECTED at or above the reporting limit
- NR Not Reported
- dry Sample results reported on a dry weight basis
- RPD Relative Percent Difference
- PQL Practical Quantitation Limit





## APPENDIX D

### Appendix D: Historical Groundwater Analytical Results

Sample Date	Sample ID	TPH-gasoline	TPH-diesel	TPH-motor oil	B	T	E	X	MtBE
		µg/L							
09/18/00	MW-1	4,500	2,200*	NA	<5.0	<5.0	<5.0	<15	230
	MW-2	<50	<50	NA	<0.5	<0.5	<0.5	<1.5	26
	MW-3	69,000	35,000*	NA	8,400	20,000	1,500	6,500	500
06/06/01	MW-1	1,800	360*	NA	<1.0	<1.0	7.4	<1.0	180
	MW-2	<50	<50	NA	<1.0	<1.0	<1.0	<1.0	43
	MW-3	73,000	2,300*	NA	12,000	34,000	1,900	8,600	480
	DW-6100	<50	<50	NA	<1.0	<1.0	<1.0	<1.0	<1.0
06/07/01	DW-6140	<50	<50	NA	<1.0	<5.0	<5.0	<5.0	52
09/13/01	MW-1	2,000	610*	NA	<2.0	<2.0	3.9	2.9	96
	MW-2	<50	<50	NA	<1.0	<1.0	<1.0	<1.0	10
	MW-3	55,000	2,400*	NA	8,300	18,000	1,000	3,800	1,100
	DW-6100	<50	<50	NA	<1.0	<1.0	<1.0	<1.0	<1.0
	DW-6140	<50	<50	NA	<1.0	<1.0	<1.0	<1.0	22
12/13/01	MW-1	3,700	1,600*	NA	59	120	31	59	130
	MW-2	120	<50	NA	9.3	33	3.1	13	14
	MW-3	71,000	2,500*	NA	11,000	19,000	1,400	6,000	260
	DW-6100	<50	<50	NA	<0.5	<0.5	<0.5	<1.5	<1.0
	DW-6140	<50	<50	NA	<0.5	<0.5	<0.5	<1.5	15
* = Higher boiling point constituents of gasoline are present.									



**Appendix D: continued**

Sample Date	Sample ID	TPH-gasoline	TPH-diesel	TPH-motor oil	B	T	E	X	MtBE
µg/L									
02/21/02	MW-1	3,700	1,300*	<100	8.5	38	16	13	200
	MW-2	69	<50	<100	2.4	14	1.1	5.1	29
	MW-3	130,000	2,300*	<1,000	9,200	21,000	1,800	6,900	430
	MW-4	<50	<50	<100	<0.30	<0.30	<0.50	<0.50	5.0
	MW-5	<50	<50	<100	<0.30	<0.30	<0.50	<0.50	45
	MW-6	140	63	<100	<0.30	3.0	<0.50	<0.50	120**
	MW-7	<50	<50	<100	1.2	7.6	0.70	3.5	2.9***
05/20/02	MW-1	3,300	1,200*	NA	<30	<30	<50	<50	210
	MW-2	<50	<50	NA	<0.30	<0.30	<0.50	<0.50	21
	MW-3	150,000	4,800*	NA	9,500	27,000	1,900	7,900	370***
	MW-4	<50	54	NA	<0.30	<0.30	<0.50	<0.50	4.0
	MW-5	<50	<50	NA	<0.30	<0.30	<0.50	<0.50	68
	MW-6	84	55	NA	<0.30	<0.30	<0.50	<0.50	49
	MW-7	<50	<50	NA	<0.30	<0.30	<0.50	<0.50	37***
	DW-6140	<50	<50	<50	<0.30	<0.30	<0.50	<0.50	18
09/06/02	DW-6100	<50	<50	NA	<1.0	<1.0	<1.0	<1.0	<1.0
09/06/02	MW-1	3,500	1,000*	NA	<2.0	<2.0	2.9	<2.0	130
	MW-2	<50	<50	NA	<1.0	<1.0	<1.0	<1.0	16
	MW-3	85,000	6,600*	NA	8,500	21,000	1,500	6,400	340
	MW-4	<50	<50	NA	<1.0	<1.0	<1.0	<1.0	34
	MW-5	65	<50	NA	<1.0	<1.0	<1.0	<1.0	65
	MW-6	<50	<50	NA	<1.0	<1.0	<1.0	<1.0	11
	MW-7	<50	<50	NA	1.5	4.3	<1.0	4.3	5.7
* = Higher boiling point constituents of gasoline are present. ** = Additional oxygenated fuel additives detected (see laboratory reports). *** = 1,2-Dichloroethane (a lead scavenger) detected (see laboratory reports).									



**Appendix D: continued**

Sample Date	Sample ID	TPH-gasoline	TPH-diesel	TPH-motor oil	B	T	E	X	MtBE
		µg/L							
12/18/02	MW-1	3,500	970*	NA	<2.0	<2.0	<2.0	<2.0	150
	MW-2	<50	<50	NA	<1.0	<1.0	<1.0	<1.0	23
	MW-3	69,000	6,500*	NA	11,000	17,000	1,100	4,700	310
	MW-4	<50	<50	NA	<1.0	<1.0	<1.0	<1.0	34
	MW-5	<50	<50	NA	<1.0	<1.0	<1.0	<1.0	56
	MW-6	<50	<50	NA	<1.0	<1.0	<1.0	<1.0	10
	MW-7	<50	<50	NA	<1.0	<1.0	<1.0	<1.0	6.8**
	DW-6100	<50	<50	NA	<1.0	<1.0	<1.0	<1.0	<1.0
03/19/03	MW-1	3,400	1,700*	NA	<2.0	<2.0	3.5	<2.0	180
	MW-2	<50	<50	NA	<1.0	<1.0	<1.0	<1.0	21
	MW-3	59,000	12,000*	NA	10,000	19,000	1,400	5,500	450
	MW-4	<50	<50	NA	<1.0	<1.0	<1.0	<1.0	5.1
	MW-5	<50	<50	NA	<1.0	<1.0	<1.0	<1.0	23
	MW-6	61	<50	NA	<1.0	<1.0	<1.0	<1.0	19
	MW-7	<50	<50	NA	<1.0	<1.0	<1.0	<1.0	12**
	DW-6140	<50	<50	NA	<1.0	<1.0	<1.0	<1.0	<1.0
03/20/03	DW-6100	<50	<50	NA	<1.0	<1.0	<1.0	<1.0	<1.0
* = Higher boiling point constituents of gasoline are present. ** = 1,2-Dichloroethane (a lead scavenger) detected (see laboratory reports).									



**Appendix D: continued**

Sample Date	Sample ID	TPH-gasoline	TPH-diesel	TPH-motor oil	B	T	E	X	MtBE
		µg/L							
07/09/03	MW-1	1,900	1,000*	NA	<2.0	<2.0	<2.0	<2.0	99
	MW-2	<50	<50	NA	<1.0	<1.0	<1.0	<1.0	17
	MW-3	49,000	12,000*	NA	9,300	23,000	1,400	6,100	230**
	MW-4	<50	<50	NA	<1.0	<1.0	<1.0	<1.0	3.7
	MW-5	<50	<50	NA	<1.0	<1.0	<1.0	<1.0	22
	MW-6	<50	<50	NA	<1.0	<1.0	<1.0	<1.0	9.4
	MW-7	<50	<50	NA	<1.0	<1.0	<1.0	<1.0	10**
	DW-6140	<50	<50	NA	<1.0	<1.0	<1.0	<1.0	4.0
07/25/03	DW-6100	<50	<50	NA	<1.0	<1.0	<1.0	<1.0	<1.0
09/18/03	MW-1	2,200	1,100*	NA	<2.0	<2.0	<2.0	<2.0	140
	MW-2	<50	<50	NA	<1.0	<1.0	<1.0	<1.0	14
	MW-3	55,000	6,800*	NA	9,400	22,000	1,500	6,400	270**
	MW-4	<50	<50	NA	<1.0	<1.0	<1.0	<1.0	17
	MW-5	<50	<50	NA	<1.0	<1.0	<1.0	<1.0	31
	MW-6	<50	<50	NA	<1.0	<1.0	<1.0	<1.0	4.8
	MW-7	<50	<50	NA	<1.0	<1.0	<1.0	<1.0	4.1**
	DW-6140	<50	<50	NA	<1.0	<1.0	<1.0	<1.0	17
	DW-6100	<50	<50	NA	<1.0	<1.0	<1.0	<1.0	<1.0
* = Higher boiling point constituents of gasoline are present. ** = 1,2-Dichloroethane (a lead scavenger) detected (see laboratory reports).									





**Appendix D: continued**

Sample Date	Sample ID	TPH-gasoline	TPH-diesel	B	T	E	X	MtBE
		µg/L						
12/02/03	MW-1	2,000	800*	<2.0	<2.0	<2.0	<2.0	130
	MW-2	<50	<50	<1.0	<1.0	<1.0	<1.0	12
	MW-3	75,000	6,100*	8,100	15,000	1,500	6,500	300**
	MW-4	<50	<50	<1.0	<1.0	<1.0	<1.0	30
	MW-5	<50	<50	<1.0	<1.0	<1.0	<1.0	28
	MW-6	<50	<50	<1.0	<1.0	<1.0	<1.0	4.5
	MW-7	<50	<50	<1.0	<1.0	<1.0	<1.0	3.5***
	DW-6140	<50	<50	<1.0	<1.0	<1.0	<1.0	4.8
	DW-6100	<50	<50	<1.0	<1.0	<1.0	<1.0	<1.0
3/31/04	MW-1	3,600	890	<6.0	<6.0	<10	<10	140
	MW-2	<50	<50	<1.5	<1.5	<2.5	<2.5	19
	MW-3	68,000	7,400	8,600	19,000	3000	11,000	390
	MW-4	<50	<50	<0.6	0.68	<1.0	<1.0	2.6
	MW-5	<50	<50	<0.6	<0.6	<1.0	<1.0	19
	MW-6	<50	54	0.96	3.5	<1.0	<1.0	16
	MW-7	<50	<50	<0.3	<0.3	<0.5	<0.5	9.8
	DW-6140	<50	<50	<0.3	<0.3	<0.5	<0.5	0.53
	DW-6100	<50	<50	<0.3	<0.3	<0.5	<0.5	<0.5
< = Less than the laboratory test method detection limit. * = Higher boiling components of gasoline are present in the early boiling range for diesel. ** = 1,2-Dichloroethane was detected at 130µg/L. *** = 1,2-Dichloroethane was detected at 5.9 µg/L.								



**Appendix D: continued**

Sample Date	Sample ID	TPH- g	TPH- d	B	T	E	X	MtBE
		$\mu\text{g/L}$						
6/08/04	MW-1	1,700	570	<3.0	<3.0	<5.0	<5.0	110
	MW-2	<50	<50	<0.60	<0.60	<1.0	<1.0	13
	MW-3	160,000	5,800	10,000	22,000	1,400	6,500	<500**
	MW-4	<50	<50	<1.5	<1.5	<2.5	<2.5	11
	MW-5	<50	<50	<1.5	<1.5	<2.5	<2.5	20
	MW-6	<50	<50	<0.30	<0.30	<0.50	<0.50	7.4
	MW-7	<50	<50	<0.30	<0.30	<0.50	<0.50	5.4
	DW-6140	<50	<50	<0.30	<0.30	<0.50	<0.50	7.9
	DW-6100	<50	<50	<0.30	<0.30	<0.50	<0.50	<0.50
< = Less than the laboratory test method detection limit. ** = Elevated detection limit to account for matrix interference.								
9/07/04	MW-1	2,300	370*	<3.0	<3.0	<5.0	<5.0	100
	MW-2	<50	<50	<0.60	<0.60	<1.0	<1.0	8.6
	MW-3	140,000	5,300*	13,000	28,000	1,800	7,300	320
	MW-4	<50	89	<0.30	<0.30	<0.50	<0.50	220
	MW-5	<50	<50	<0.30	<0.30	<0.50	<0.50	19
	MW-6	<50	<50	<0.30	<0.30	<0.50	<0.50	2.6
	MW-7	<50	<50	<0.30	<0.30	<0.50	<0.50	8.4 +
	DW-6140	<50	<50	<0.30	<0.30	<0.50	<0.50	7.1
	DW-6100	<50	<50	<0.30	<0.30	<0.50	<0.50	<0.50
< = Less than the laboratory test method detection limit. + = 1,2-Dichloroethane (a lead scavenger) was detected at 3.5 $\mu\text{g/L}$ . * = Results in the diesel organics range are primarily due to overlap from a gasoline range product. ** = Elevated detection limit to account for matrix interference.								



**Appendix D: continued**

Sample Date	Sample ID	TPH- g	TPH- d	B	T	E	X	MtBE
		µg/L						
12/09/04	MW-1**	2,000	220*	<1.5	<1.5	<2.5	<2.5	86
	MW-2	<50	<50	<0.30	<0.30	<0.50	<0.50	9.9
	MW-3	----removed----						
	MW-4***	<250	<50	<1.5	<1.5	<2.5	<2.5	86
	MW-5	NS	NS	NS	NS	NS	NS	NS
	MW-6	<50	<50	<0.30	<0.30	<0.50	<0.50	2.7
	MW-7	NS	NS	NS	NS	NS	NS	NS
	DW-6140	NS	NS	NS	NS	NS	NS	NS
	DW-6100	<50	<50	<0.30	<0.30	<0.50	<0.50	<0.50
NS = not sampled. < = less than the laboratory test method detection limit. * = results in the diesel organics range are primarily due to overlap from a gasoline range product. ** = elevated detection limit to account for matrix interference. *** = the reporting limits are elevated due to sample foaming.								
03/31/05	MW-1***	2,300	860*	<6.0	<6.0	<10	<10	89
	MW-2	<50	<50	<0.30	<0.30	<0.50	<0.50	34
	MW-3	----removed----						
	MW-4	<50	<50	<0.30	<0.30	<0.50	<0.50	8.2
	MW-5***	<1,000	<50	<6.0	<6.0	<10	<10	<10
	MW-6	<50	<50	<0.30	<0.30	<0.50	<0.50	8.8
	MW-7	<50	<50	<0.30	<0.30	<0.50	<0.50	32 <sup>+</sup>
	DW-6100	<50	<50	<0.30	<0.30	<0.50	<0.50	<0.50
	DW-6140	<50	<50	<0.30	<0.30	<0.50	<0.50	0.58
NS = Not sampled. < = Less than the laboratory test method detection limit. + = 1,2-Dichloroethane detected at 5.0 µg/L. * = Results in the diesel organics range are primarily due to overlap from a gasoline range product. ** = Elevated detection limit to account for matrix interference. *** = The reporting limits are elevated due to sample foaming.								



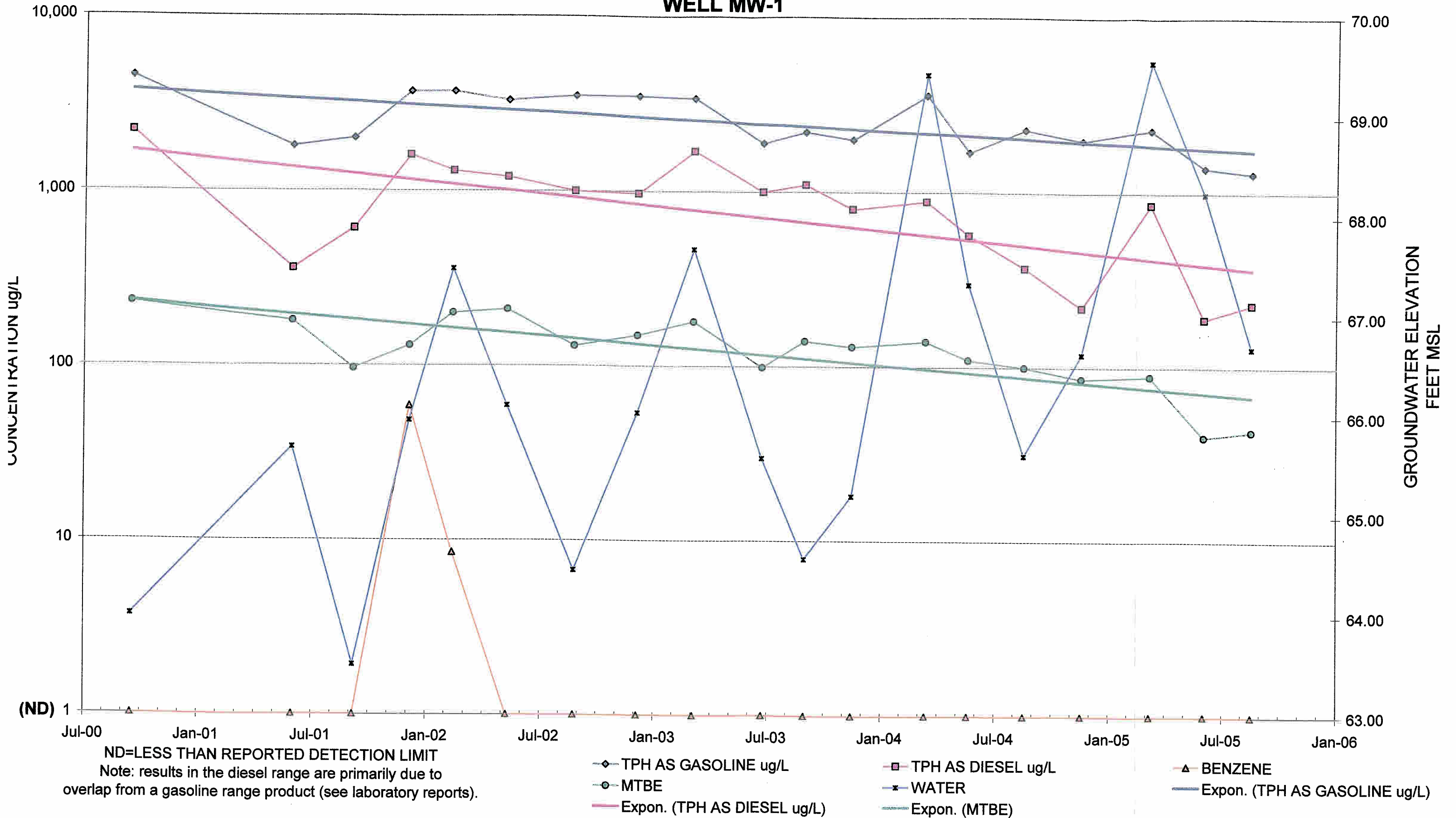
# Appendix D: continued

Sample Date	Sample ID	TPH- g	TPH- d	B	T	E	X	MtBE
		µg/L						
06/27/05	MW-1	1,400	190*	<0.30	0.39	<0.50	<0.50	40
	MW-2	<50	<50	<0.30	<0.30	<0.50	<0.50	31
	MW-3	----removed----						
	MW-4	<50	<50	<0.30	<0.30	<0.50	<0.50	45
	MW-5	<50	<50	<0.30	<0.30	<0.50	<0.50	15
	MW-6	68	<50	<0.30	<0.30	<0.50	<0.50	8.9
	MW-7	<50	<50	<0.30	<0.30	<0.50	<0.50	39 +
	DW-6100	<50	<50	<0.30	<0.30	<0.50	<0.50	<0.50
	DW-6140	<50	<50	<0.30	<0.30	<0.50	<0.50	<0.50
< = Less than the laboratory test method detection limit. + = 1,2-Dichloroethane detected at 5.6 µg/L. * = Analysis of this sample indicates the presence of hydrocarbons lower in molecular weight than diesel.								
09/12/05	MW-1	1,300	230*	<6.0	<6.0	<10	<10	43
	MW-2	<500	97	<3.0	<3.0	<5.0	<5.0	19
	MW-3	----removed----						
	MW-4	<1000	<100	<6.0	<6.0	<10	<10	34
	MW-5	<50	550**	<0.30	<0.30	<0.50	<0.50	17
	MW-6	<93***	<50	<0.30	<0.30	<0.50	<0.50	2.7
	MW-7	<100	<50	<0.30	<0.30	<0.50	<0.50	43 +
	DW-6100	<50	<50	<0.30	<0.30	<0.50	<0.50	<0.50
	DW-6140	<50	<50	<0.30	<0.30	<0.50	<0.50	<0.50
< = Less than the laboratory test method detection limit. + = 1,2-Dichloroethane detected at 7.4 µg/L. * = Analysis of this sample indicates the presence of hydrocarbons lower in molecular weight than diesel. ** = Results in the diesel organics range are primarily due to overlap from a heavy oil range product. *** = The method blank contains analyte at a concentration above the MRL; sample reporting limits were raised as necessary.								



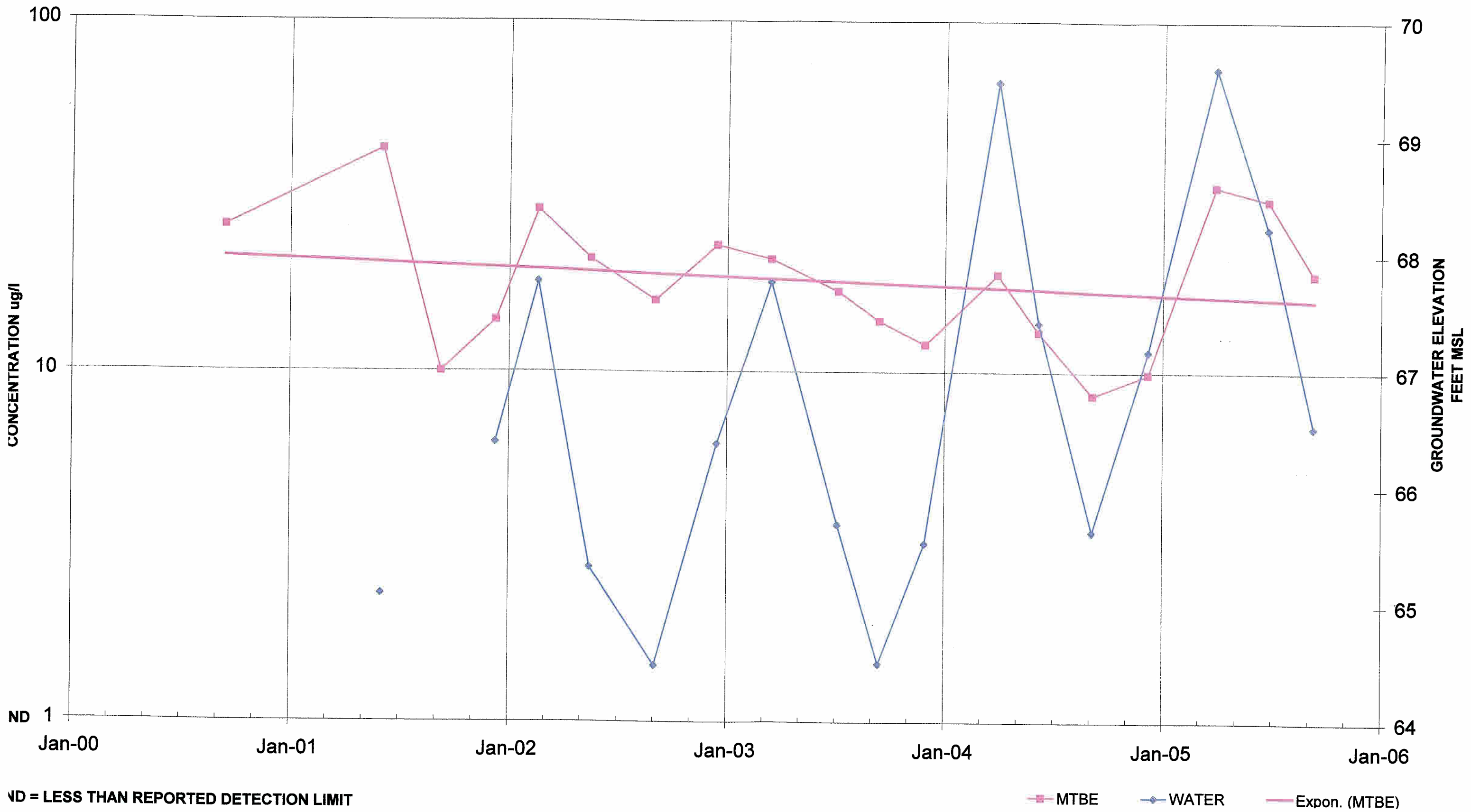
## APPENDIX E

**TIME vs. CONCENTRATION GRAPH**  
**PIPELINE EXCAVATORS 5715 SEBASTOPOPL ROAD, SEBASTOPOL**  
**TTC Job No. 1301.01**  
**WELL MW-1**

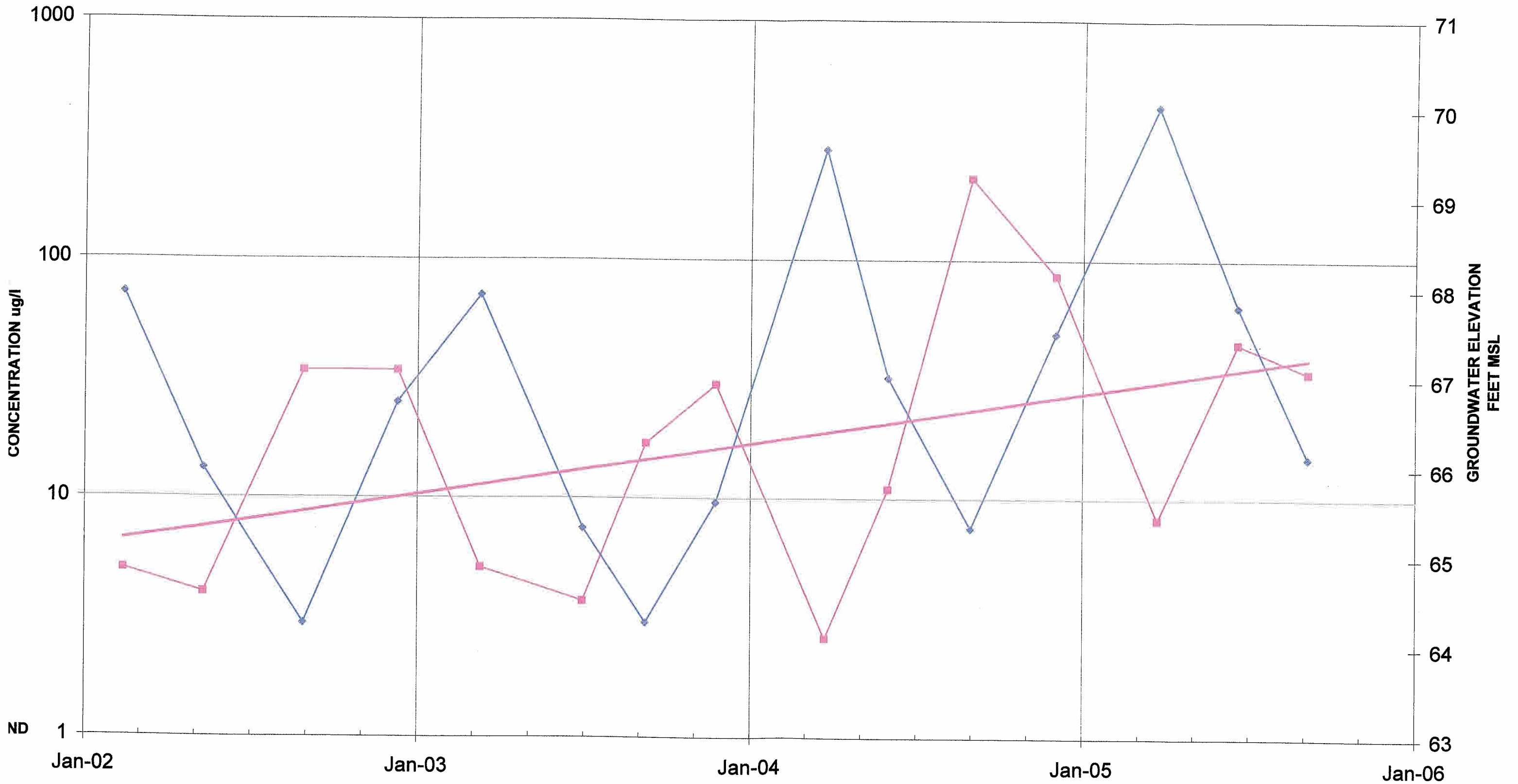




TIME vs. MTBE CONCENTRATION GRAPH  
PIPELINE EXCAVATORS 5715 SEBASTOPOL ROAD, SEBASTOPOL  
TTC JOB NO. 1301.01  
MW-2



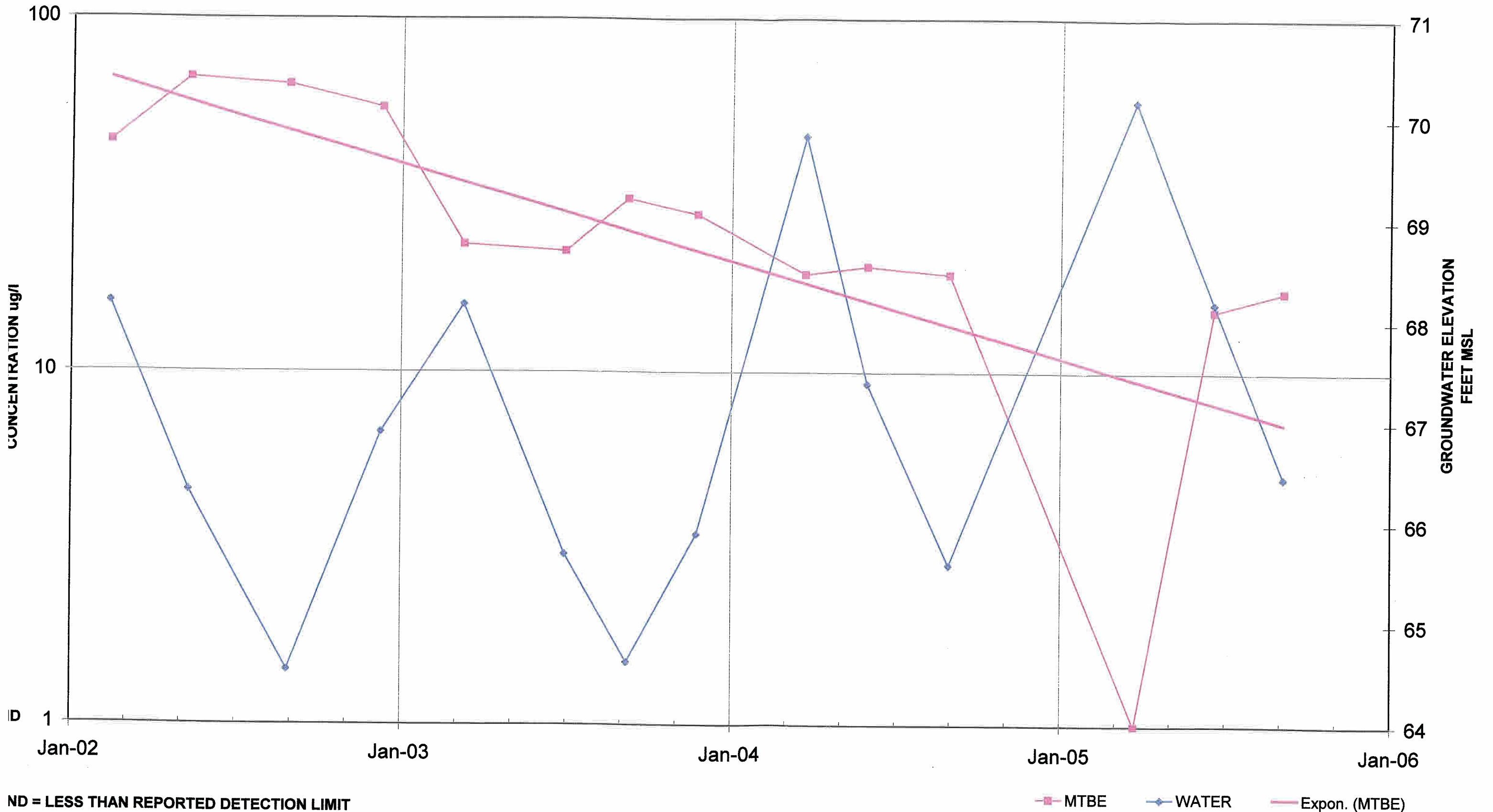
TIME vs. MTBE CONCENTRATION GRAPH  
PIPELINE EXCAVATORS 5715 SEBASTOPOL ROAD, SEBASTOPOL  
TTC JOB NO. 1301.01  
MW-4



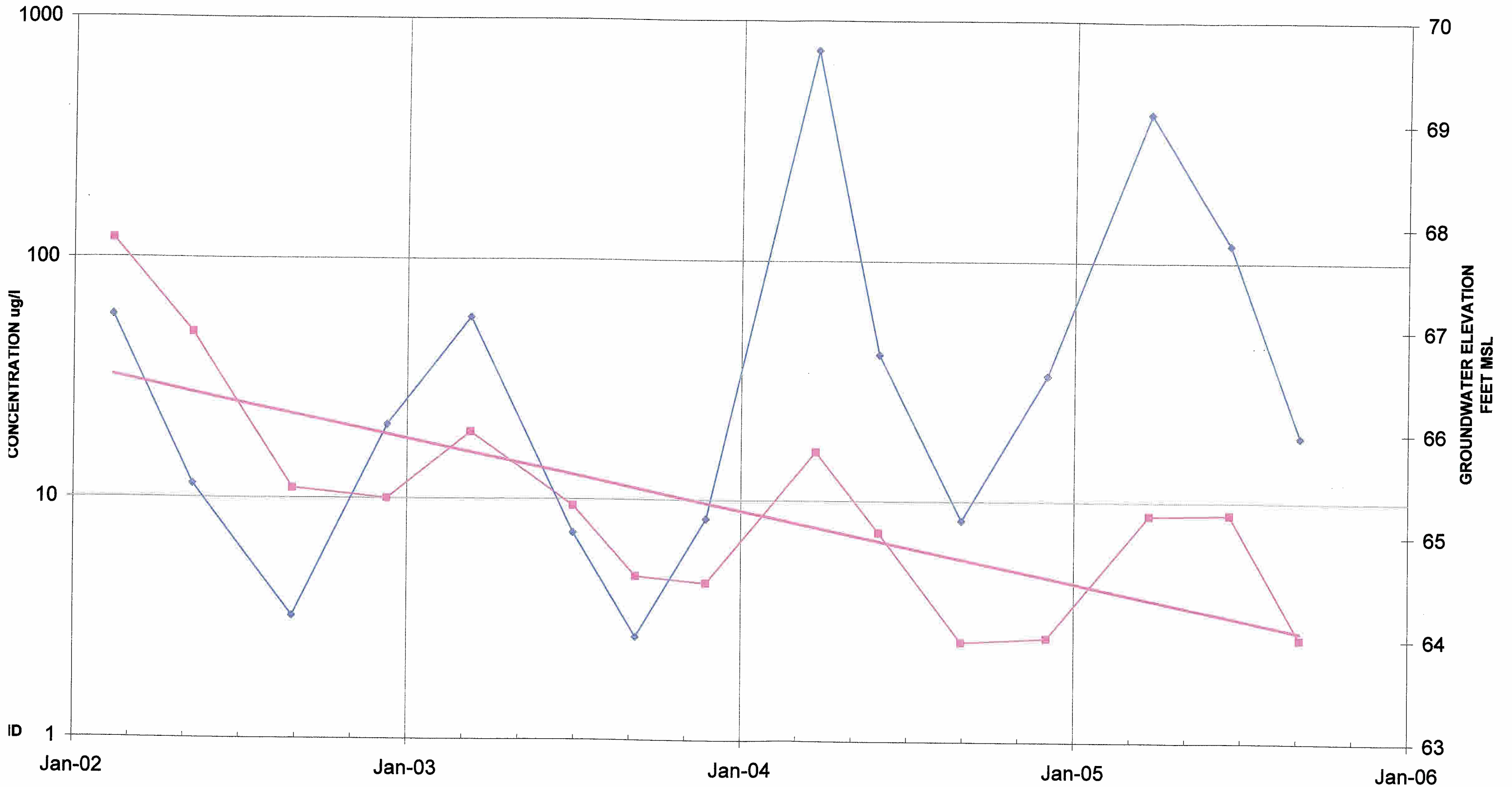
ND = LESS THAN REPORTED DETECTION LIMIT

MTBE WATER Expon. (MTBE)

TIME vs. MTBE CONCENTRATION GRAPH  
PIPELINE EXCAVATORS 5715 SEBASTOPOL ROAD, SEBASTOPOL  
TTC JOB NO. 1301.01  
MW-5



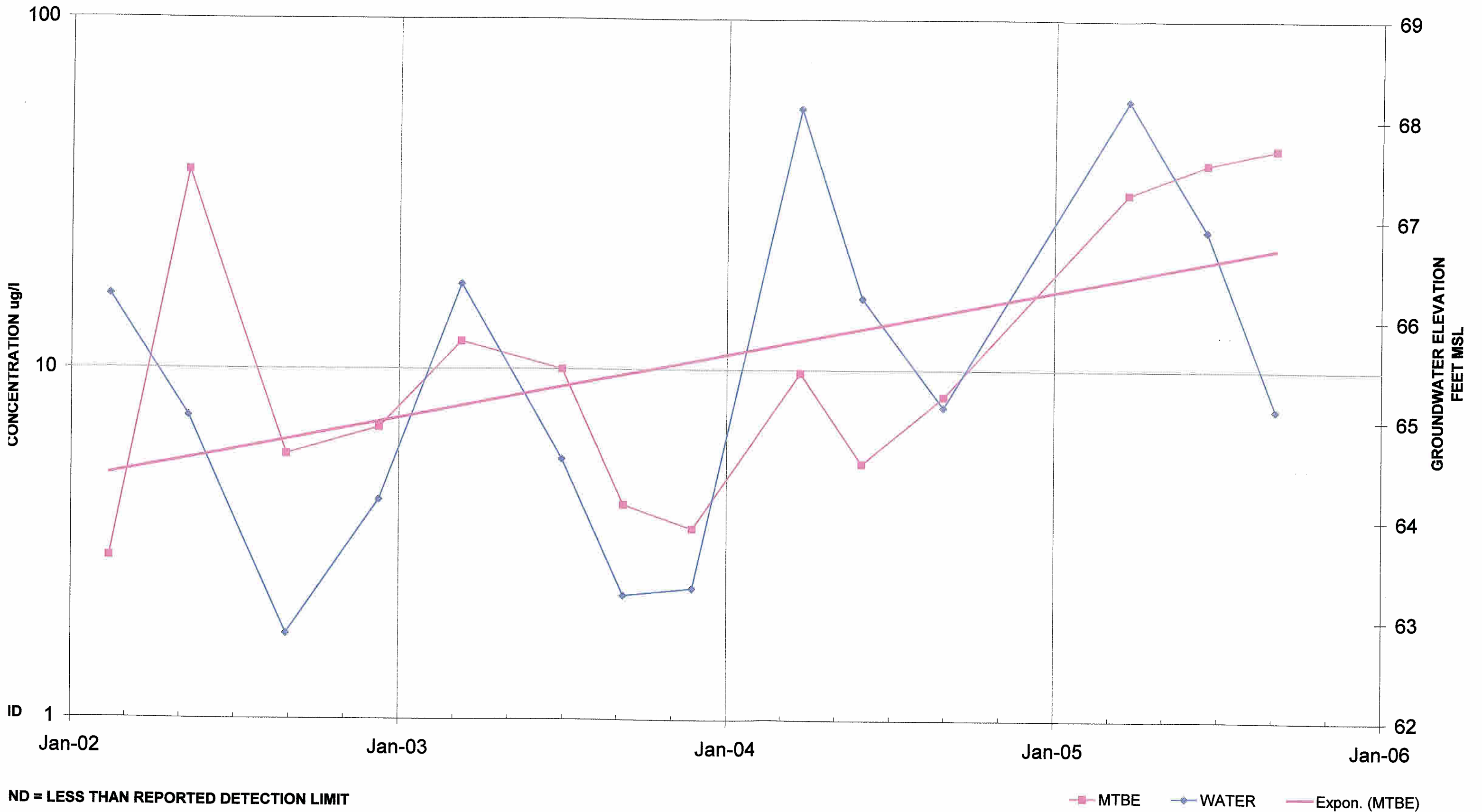
TIME vs. MTBE CONCENTRATION GRAPH  
PIPELINE EXCAVATORS 5715 SEBASTOPOL ROAD, SEBASTOPOL  
TTC JOB NO. 1301.01  
MW-6



ND = LESS THAN REPORTED DETECTION LIMIT

MTBE WATER Expon. (MTBE)

TIME vs. MTBE CONCENTRATION GRAPH  
PIPELINE EXCAVATORS 5715 SEBASTOPOL ROAD, SEBASTOPOL  
TTC JOB NO. 1301.01  
MW-7



**DISTRIBUTION LIST  
FOR  
3<sup>RD</sup> QUARTER 2005 MONITORING REPORT**

**PIPELINE EXCAVATORS  
5715 SEBASTOPOL ROAD  
SEBASTOPOL, CALIFORNIA 95473**

**DATED OCTOBER 2005  
JOB No. 1301.01**

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